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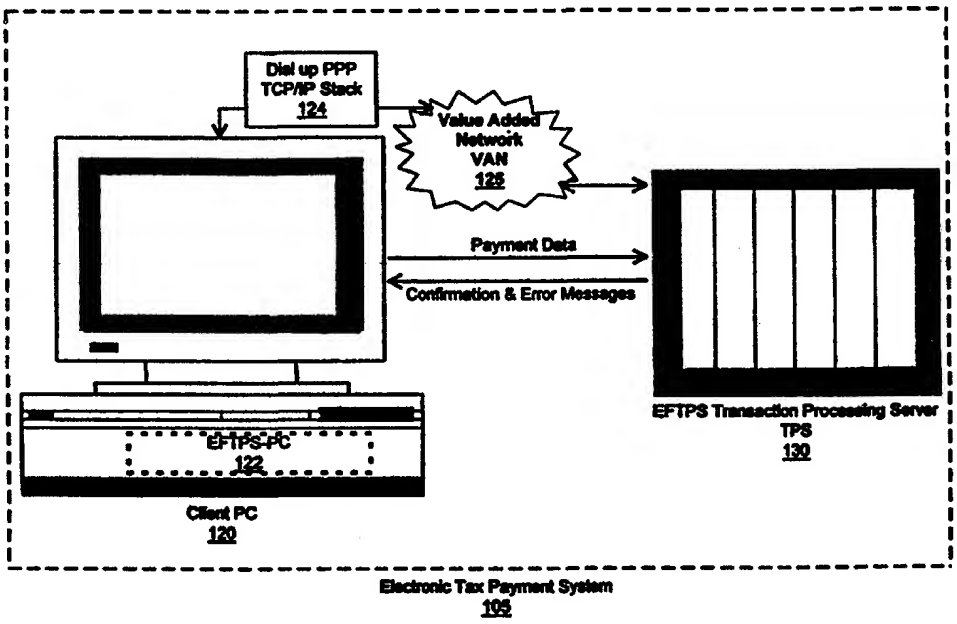

(57) Abstract

According to the invention, a method and apparatus are provided for facilitating the interactive entry and validation of data prior to electronic submission to a tax system, such as the Electronic Federal Tax Payment System (EFTPS). Embodiments of the invention run on a personal computer and collect the data for multiple tax payments by means of an interactive graphical user interface. Embodiments of the invention include data editing capabilities, data validation, and payment data reports. Embodiments of the invention include a communications module that transmits payment data to the EFTPS and receives a confirmation or error message in response.

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INTERACTIVE TAX PAYMENT SYSTEM

Field of the Invention

The present invention relates to the entry of tax data into a computer system and, more particularly, to the interactive entry and validation of multiple tax payment transactions prior to submission to an electronic tax payment system.

Background of the Invention

The Electronic Federal Tax Payment System (EFTPS) is an automated system for remitting federal tax payments to the Internal Revenue Service (IRS). The EFTPS accepts and processes information for all types of federal tax payments from individuals, businesses, and third party filers (*e.g.*, payroll processors, banks, or other fiduciaries that specialize in tax preparation and payment submittal on behalf of others). The IRS and the Federal Management Service selected two banks to implement the EFTPS. Each bank, acting as a Treasury Financial Agent (TFA), has jurisdiction over a specific geographic region. Based on their principle location, electronic filers are assigned to the TFA that handles the region in which the filer is located. Each TFA operates a Transaction Processing Server (TPS) on which its EFTPS application runs. The EFTPS application accepts electronic payments, passes the payment details to the IRS, and initiates the electronic transfer of funds into the United States Treasury account.

Prior to remitting federal tax payments electronically, a taxpayer must be enrolled in the system. Once enrolled, the taxpayer (or a third party filer acting on the taxpayer's behalf) uses a front end interface to the EFTPS to submit the information necessary to make payments. Several front end interfaces are presently available for communicating with the EFTPS.

One interface, the "Audio Response Unit" (ARU), accepts payment data over a touch tone telephone. The ARU collects the data related to a single payment through a series of prompts. Each payment transaction takes about two to three minutes to complete. Therefore, while the ARU can accept multiple transactions in one session, it is an inefficient system for third party filers who submit more than ten transactions per day.

Other front end interfaces to the EFTPS are available to third party filers for electronically submitting multiple transactions that have been previously entered into a computer system. One computer system, based on EDI, is available to "bulk filers" who submit more than 1,000 payment transactions on a peak day. Another computer system, which imports and transmits ASCII text files over a Value Added Network, is recommended for "batch filers" who submit payments for at least fifty taxpayers enrolled in EFTPS.

Neither of these systems, however, provides for interactive data entry or error detection and correction. Without such interactive capabilities, input errors can easily go undetected until after a large set of data is entered and validated, either manually or by a separate computer program. This process can be inefficient because data entry personnel must alternate between data entry and data validation until all errors are detected and corrected. Examples of data entry errors include missing required data entries, invalid tax form numbers, invalid combinations of tax form and payment period, payment detail amounts not totaling payments, and invalid requested settlement dates.

Accordingly, there is a need for an improved interface for the electronic submission of input to a tax system that offers advantages over other interfaces.

Summary of the Invention

According to the invention, a method and apparatus are provided for facilitating the interactive entry and validation of data prior to electronic submission to a tax system, such as the Electronic Federal Tax Payment System (EFTPS). Embodiments of the invention run on a personal computer and collect the data for multiple tax payments by means of an interactive graphical user interface. Embodiments of the invention include data editing capabilities, data validation, and payment data reports. Embodiments of the invention include a communications module that transmits payment data to the EFTPS and receives a confirmation or error message in response.

Certain embodiments of the invention offer many advantages including, without limitation, the following:

- a system for interactively accepting and validating data input comprising tax payment transactions;
- a system for viewing and editing previously entered data input comprising tax payment transactions;
- a system for sending data input comprising tax payment transactions for subsequent processing;
- a system for importing data comprising tax payment transactions in batch mode from a pre-defined file;
- a system for exporting previously entered data comprising tax payment transactions to an archival file;
- a system for administering multiple levels of access to data comprising tax payment transactions;
- a system for receiving immediate notification regarding status of submitted tax payment transactions; and
- a system incorporating communications software configured to connect with the EFTPS.

These and many other advantages of certain embodiments of the invention will become apparent to those skilled in the art from the detailed description below.

Brief Description of the Drawings

An understanding of one or more embodiments of the invention may be gained by considering the following detailed description in conjunction with the accompanying drawings, in which:

FIG. 1 illustrates a high level diagram of an embodiment of an electronic tax payment system in which the invention might operate.

FIG. 2 illustrates an example of the structure of a "business event" that an embodiment of the invention might use to submit data for a tax payment to an electronic tax payment system.

FIG. 3 illustrates an example of the structure of a "remote message block" that an embodiment of the invention might use to submit one or more business events to an electronic tax payment system.

FIG. 4 shows a flow diagram of an example of a communications interaction between a client personal computer implementing an embodiment of the invention and a transaction processing server of an electronic tax payment system.

FIG. 5 shows a flow diagram of the major functions of one embodiment of the invention.

FIG. 6 illustrates an example of an "enter payments" screen that an embodiment of the invention might use to obtain tax payment data from a user.

FIG. 7 illustrates an example of a "summary view" screen that an embodiment of the invention might use to display a summary of previously entered tax payment data.

FIG. 8 shows a flow diagram of the unsent payments procedure of one embodiment of the invention.

FIG. 9 shows a flow diagram of the send procedure of one embodiment of the invention.

FIG. 10 shows a flow diagram of the file import procedure of one embodiment of the invention.

FIG. 11 shows a flow diagram of the file export procedure of one embodiment of the invention.

Detailed Description of Preferred Embodiment(s)

FIG. 1 illustrates a high level diagram of an embodiment of an Electronic Tax Payment System 105 in which the present invention might operate. Electronic Tax Payment System 105 includes any number of client personal computers (PCs), one of which is illustrated by Client PC 120. EFTPS-PC 122 is a software application that taxpayers and third party filers can use to exchange information electronically with the Electronic Federal Tax Payment System (EFTPS). In Electronic Tax Payment System 105, an embodiment of EFTPS-PC 122 is installed on Client PC 120. EFTPS-PC 122 communicates with an EFTPS Transaction Processing Server (TPS), one of which is illustrated by TPS 130. Communications between EFTPS-PC 122 and TPS 130 take place over a Value Added Network (VAN) 125, such as one operated by CompuServe or MCI, using a dial up point to point protocol (PPP) Transmission Control Protocol/Internet Protocol (TCP/IP) stack 124. Those skilled in

the art understand that TPS 130 could also be referred to as a "host," that other communications protocols accepted by TPS 130 could be used, and that EFTPS-PC 122 could exchange information electronically with any electronic tax payment system (*e.g.*, a state or local system).

Herein, the term "user" refers to a third party filer using EFTPS-PC 122. The following sections discuss the communications protocol and process that EFTPS-PC 122 uses to communicate with TPS 130 and describe in detail how EFTPS-PC 122 is implemented and operated by a user on Client PC 120.

1. COMMUNICATIONS PROTOCOL

This section describes the communications protocol that EFTPS-PC 122 and TPS 130 use to exchange data, which is referred to herein as "tax data." The systems exchange tax data in units that are referred to herein as "transactions" or "business events," such as Business Event (BE) 210, illustrated in FIG. 2. In addition to tax data, Business Event 210 includes information that the systems use to process the tax data.

Business Event 210 includes two components: a header component (*e.g.*, BE Header 212) and a data component (*e.g.*, BE Data 214). A Business Event 210 that EFTPS-PC 122 sends to TPS 130 includes tax data for processing (a "send Business Event 210"). A Business Event 210 that TPS 130 sends in response (a "response Business Event 210") includes a return code that indicates the status of the corresponding send Business Event 210. EFTPS-PC 122 and TPS 130 exchange one or more business events, such as Business Event 210, in a Remote Message Block (RMB) 310, such as the one illustrated in FIG. 3. The format and content of RMB 310 and Business Event 210 are discussed in detail in the following sections.

1.1 Remote Message Block

Referring to FIG. 3, RMB 310 includes Transmission Header 312 and one or more Business Events 210, each including BE Header 212 and BE Data 214. EFTPS-PC 122 observes the following rules in building and transmitting RMBs 310 to TPS 130:

- RMB 310 sent by EFTPS-PC 122 should not exceed 4k bytes in size (this limit does not apply to RMB 310 sent by TPS 130).

- Business Event 210 should not span multiple RMBs 310.
- A maximum of 10 Business Events 210 should be included in each RMB 310.
- A maximum of 100 Business Events 210 should be included in each transmission (a minimum of 10 Business Events 210 is recommended).

Following these rules, EFTPS-PC 122 typically transmits between 1 and 10 full RMBs 310 in one communications session with TPS 130. Those skilled in the art will appreciate that these rules are not EFTPS-PC 122 requirements; rather, the rules reflect TPS 130 specifications. For example, the limit of 100 Business Events 210 per transmission is imposed by TPS 130 to ensure that one user does not monopolize a communications line for extended periods of time. Embodiments of EFTPS-PC 122 could send more than 100 Business Events 210 in a communications session. Similarly, embodiments of EFTPS-PC 122 could build an RMB 310 containing more than 10 Business Events 210.

Transmission Header 312 consists of information that is required in every RMB 310 transmission to facilitate the movement of RMB 310 to and from TPS 130. The following table illustrates the format and content of Transmission Header 312. A more detailed description of each of the fields follows the table.

Table A: Transmission Header

Field	Type	Length	Sent to TPS	Received from TPS
Transmit Constant	Character String	4	BB10	BB10
Return Code	Character String	4	0000	Return status of RMB
Next in Chain ID	Character String	1	0	0=last in chain 1=first & middle
Character Set	Binary	1	x'00'(hex)= EBCDIC x'01'(hex)= ASCII	x'00'(hex)= EBCDIC x'01'(hex)= ASCII
CRC	Binary	4	Calculated value (hex)	Calculated value (hex)
Sequence Number	Character String	4	Sequence of RMB	same as sent

			0000-9999	
Vendor ID Number	Character String	8	Vendor Certification ID	same as sent
Date/Time Stamp	Character String	14	YYYYMM DDHHMISS of transaction	same as sent
Reserved	Character String	2	00	00
Data Length	Character String	12	Total size of remote message blocks in bytes	Total size of remote message blocks in bytes

Transmit Constant is an identification used by TPS 130 to detect the type of communications service being conducted; EFTPS-PC 122 sets the value to BB10.

Return Code is returned by TPS 130 as "0000" to indicate acceptance of the transaction or another number indicating an error; EFTPS-PC 122 sets the value to "0000." A list of return codes is provided in the following table.

Next in Chain ID is set to 0 by EFTPS-PC 122; TPS 130 can return messages that are over the 4k bytes limit and, therefore, be forced to break RMB 310 into sections. A "1" indicates that this is the first or middle part of this chain and a "0" indicates that this is the end.

Character Set designates the type of data string. This is a binary field. A hexadecimal value of x'00' indicates EBCDIC and a value of x'01' indicates ASCII.

Cyclic Redundancy Code (CRC) is an additive checksum calculation binary number. The CRC is generated on the content of RMB 310 following Transmission Header 312. The CRC must conform to the CCITT CRC-32 Cyclic Redundancy Check standard.

Sequence Number is defined by EFTPS-PC 122; RMB 310 sent in response by TPS 130 has the same sequence number.

Vendor ID Number is a certification number provided to a software vendor whose support capabilities and embodiment of EFTPS-PC 122 satisfy minimum requirements set by the Treasury Financial Agent. TPS 130 will reject any payment made by a non-certified EFTPS-PC 122.

Date/Time Stamp must be made in the YYYY(year)MM(month)DD(day)HH(hour) MI(minute)SS(Second) format to designate the time of transmission.

Reserved is currently not used but is set aside for possible additional data.

Data Length is the total number of bytes of RMBs 310 that follow Transmission Header 312 (i.e., not including Transmission Header 312).

Table B: Transmission Header Return Codes

Return Code	Return Code Description
0000	Successful
C001	Invalid Routing Information
C002	Invalid Character Set
C003	Invalid CRC
C004	Invalid Vendor ID
C005	Invalid Sequence Number
C006	Invalid Date / Time Stamp
C007	Invalid Data Length

1.2 Business Event Header

Every Business Event 210 comprises one BE Header 212 and one BE Data 214. BE Header 212 provides the information that defines *every* Business Event 210 within an RMB 310. The following table illustrates the format and content of Business Event 210. A more detailed description of each of the fields follows the table.

Table C: Business Event Header

Field	Type	Length	Sent to TPS	Received from TPS
Application and System	Character	6	EFTPS_ (_ is a space)	EFTPS_ (_ is a space)
Business Event	Character	6	P200HA	P200HA
Remote Version	Character	8	01000000	same as sent
Sequence Number	Character	4	Sequence of Business Events	same as sent

			0000-9999	
Date/Time Stamp	Character	14	YYYYMMDDHHMISS date format	same as sent
Reserved	Character	2	00	00
Encryption/ Decryption ID	Character	2	00	00
Compression ID	Character	2	00	00
Site Identification	Character	8	Login site	same as sent
Login Identification	Character	8	00000000	same as sent
Return Code	Character	4	0000	Return status of BE
Data Format	Character	2	00	00
Data Length	Character	6	Length of Business Event Data in bytes	Length of Business Event Response in bytes

Application and System is a constant that instructs TPS 130 that this is an EFTPS Business Event 210.

Business Event is a constant that instructs TPS 130 that this is a tax payment Business Event 210.

Remote Version is a constant that indicates the version level of the EFTPS Interface Specification implemented by EFTPS-PC 122.

Sequence Number is assigned by EFTPS-PC 122 and is a unique ID for each Business Event 210. It designates the order of Business Event 210 within RMB 310. It is important to note that Business Events 210 within RMB 310 may not be passed back from TPS 130 in the same order sent by EFTPS-PC 122. Therefore, EFTPS-PC 122 must be capable of using the sequence numbers of BE Header 212 to re-order Business Events 210.

Date/Time Stamp must be made in the YYYY(year)MM(month)DD(day)HH(hour) MI(minute)SS(second).

Reserved is currently not used but is set aside for possible additional data.

Encryption/Decryption ID is set to "00" as no encryption is used for Business Event 210 (currently TPS 130 does not support any encryption methods).

Compression ID is set to "00" as no compression is used for Business Event 210 (currently TPS 130 does not support any compression methods).

Site Identification is a string that identifies the physical location of the system sending the transaction (currently TPS 130 does not use this information).

Login ID is provided to identify individual networked users at a site.

Return Code is returned by TPS 130 as a "0000" to indicate acceptance of the transaction or another number indicating an error; EFTPS-PC 122 sets the value to "0000." A list of return codes is provided in the following table.

Data Format is set to "00" by EFTPS-PC 122.

Data Length is the total number of bytes in BE Data 214.

Table D: Business Event Header Return Codes

Return Code	Return Code Description
0000	Successful
0004	Data Field Error - Correct and Retry
0008	Business Event Not Processed - Retry
0012	Business Event Failed - Fatal Error - Contact Customer Service
C101	Invalid Application System
C102	Invalid Business Event
C103	Invalid Remote Version Number
C104	Invalid Sequence Number
C105	Invalid Date/Time Stamp
C106	Invalid Encryption Method ID
C107	Invalid Compression Method ID
C108	Invalid Site ID
C109	Invalid Logon ID
C110	Invalid Data Format
C111	Invalid Data Length
C112	Meta Data Error

1.3 Business Event Data

As discussed above, every Business Event 210 comprises one BE Header 212 and one BE Data 214. The data in BE Data 214 is organized as a series of fields, with

each field structured as a "data information block." The following table," Table E: Data Information Block," illustrates the format of a data information block. "Table F: Send Business Event Data" provides details about the content of data information blocks containing tax data in a send Business Event 210 sent by EFTPS-PC 122. The section entitled "Enter Function" includes details about how EFTPS-PC 122 obtains and stores this tax data. "Table G: Send Business Event Data Example" includes examples of tax data values. "Table H: Response Business Event Data" provides details about the content of data information blocks containing response data in a response Business Event 210 sent by TPS 130.

Table E: Data Information Block

Field	Type	Length	Sent to TPS	Received from TPS
Data Tag	Character String	4	Field ID	Field ID
Data Format	Character String	1	0	0
Data Length	Character String	4	Length of field	Length of field
Data Stream	Character String	Data Length	Data being passed	Data being passed

Data Tag is the data tag ID for the field being passed. The following table, "Table F: Send Business Event Data" provides examples of data tags.

Data Format is the format of the data. Currently all values for this field are 0.

Data Length is the length of the data stream in bytes. The following table, "Table F: Send Business Event Data" provides examples maximum allowable lengths.

Data Stream is the value of the field being sent.

Table F: Send Business Event Data

Field	Data Tag	Data Format	Max. Length	Optional	Default
TIN	1401	0	9	N	0
PIN	1402	0	4	N	0
Tax Type	1403	0	4	N	0
Payment Reason	1404	0	1	N	7
Filing Period	1405	0	4	N	0
Payment	1406	0	10	N	0

Amount					
Payment Amount Sign	1407	0	1	Y	+
Verification Code	1408	0	2	N	0
Settlement Date	1409	0	6	N	0
Overrides:					
Tax Type	1410	0	1	Y	(none)
Threshold	1411	0	1	Y	(none)
Duplicate Pmt	1412	0	1	Y	(none)
FUTA	1413	0	1	Y	(none)
Filing Period	1414	0	1	Y	(none)
Sub-category:					
Count	1415	0	2	N	0
Code	1500-1549	0	3	Y	0
Amount	1550-1599	0	10	Y	0
Amount Sign	1450-1499	0	1	Y	+

The following table includes sample tax payment field data. EFTPS-PC 122 constructs one data information block for each field. EFTPS-PC 122 derives the Tax Type and Payment Reason fields from a five digit Tax Code that represents the combination of the Tax Form and Reason Code entered by the user. For example, if the user enters "706GS(D)" as the Tax Form and "7" as the Reason Code, the applicable Tax Code is "70627." EFTPS-PC 122 uses the first four digits of the Tax Code (*i.e.*, "7062") for the Tax Type and the fifth digit (*i.e.*, "7") for the Reason Code. Examples of five digit Tax Codes are given in the Tax Code Conversion tables in "Appendix A: Tax Form Reference Information." Details regarding data entry are included in the section entitled "Enter Function."

Table G: Send Business Event Data Example

Field	Value
TIN	123456789
PIN	1234
Tax Type	1040
Payment Reason	7
Filing Period	1296
Payment Amount	$150.00

Payment Amount Sign	+
Verification Code	11
Settlement Date	123196
Overrides:	
Tax Type	N
Threshold	N
Duplicate Payment	N
FUTA	N
Filing Period	N
Sub-category:	
Count	02
Code (1)	014
Amount (1)	$50.00
Amount Sign (1)	+
Code (2)	022
Amount (2)	$100.00
Amount Sign (2)	+

TPS 130 responds to RMB 310 sent from EFTPS-PC 122 by sending a corresponding RMB 310 including response Business Events 210 that indicate a successful or unsuccessful transaction. As in a send Business Event 210, the data in BE Data 214 of a response Business Event 210 is organized in one or more data information blocks. The following table, "Table H: Response Business Event Data" provides examples of the content of data information blocks in a response Business Event 210 sent from TPS 130. It is important to note that Business Events 210 within RMB 310 sent from TPS 130 may not be in the same order as the corresponding Business Events 210 sent by EFTPS-PC 122. Therefore, EFTPS-PC 122 uses the sequence numbers in BE Header 212 to re-order Business Events 210.

Each response Business Event 210 contains one of the following: (1) an EFT number (BE Header 212 return code will be zero), (2) an EFT number with a settlement date (BE Header 212 return code will be zero), or (3) an error return (BE Header 212 return code will be non-zero). When a response Business Event 210 contains a non-zero return code, EFTPS-PC 122 can look up the corresponding message text in a table (*e.g.*, "Table J: Response Business Event Error Codes") or extract the message text from response Business Event 210, if TPS 130 included the text.

Table H: Response Business Event Data

Field	Data Tag	Data Format	Max. Length	Optional
EFT Number	1442	0	15	Y*
Settlement Date	1441	0	6	Y
Error Return	EMSG	0	74	Y*

Note: *If Error Return is zero then there will be an EFT Number.

EFT Number is a fifteen character alphanumeric string sent from TPS 130 if the payment has been accepted. This string is the only verification that the transaction was processed.

Settlement Date is the date used for the tax payment if the requested settlement date was not accepted. The settlement date is returned with an EFT number.

Error Return is used if Business Event 210 has a non-zero return code. The error return field data stream in the data information block of response BE Data 214 contains three sub-fields, as described in the following table. These sub-fields are contained within the data stream field of the Error Return's data information block (*i.e.*, the sub-fields are not in separate data information blocks). The fields are concatenated together in a single block in the order shown.

Table I: Error Return Sub-Fields

Sub-Field	Length	Optional	Description
Field Tag	4	N	The field that the error is associated with
Error Code	8	N	See "Table J: Response Business Event Error Codes"
Error Text	62	Y	The text of the error

Table J: Response Business Event Error Codes

Error Code	Error Description
20000001	You are not enrolled to make an ACH Debit Payment.
20000002	Your payment cannot be accepted at this time. Call Customer Service.
20000003	That Tax Type cannot be reported at this time.
20000004	The Tax Payment Reason Code is not valid.

20000005	You are not enrolled for this Tax Type. Do you still want to report it?
20000007	The date is invalid for this Tax Type. Please specify another date.
20000009	Dollar Amount is not in the valid range (.01 to 99999999.99)
20000010	The Tax Payment Amount is over the defined threshold. Do you want to override it?
20000011	The Verification Code is incorrect for this Tax Payment Amount.
20000012	The Settlement Date must be later than today & less than max.
20000013	That date is either invalid or a holiday/weekend. Do not use.
20000014	The Tax Settlement Date must be within 30 days.
20000015	The Tax Settlement Date must be within 105 days.
20000016	Your settlement date is after the cutoff time for a 1 day Payment Settlement Date.
20000017	Intended Payment Settlement Date is not numeric.
20000018	Intended Payment Settlement Date is in error.
20000019	You reported over $500,000 for Tax Type 940. Is this correct?
20000020	You reported over $100,000 for Tax Type 940. Is this correct?
20000021	That IRS Number is invalid (or Sub-category not found).
20000022	The subtotals do not equal the total Tax Payment Amount.
20000023	You are not eligible to report this Tax Type.
20000024	This exact payment was previously reported. Proceed anyway?
20000026	Invalid Filing Period Date. Must be in MMYY format.
20000027	Taxpayer not currently actively enrolled. No Payment Possible.
20000028	Taxpayer not valid for the Taxpayer Enrollment.
20000029	You are not enrolled for this Tax Type. Report it anyway?
20000048	That date is invalid for this Tax Type. It must be December.
20000067	Severe error encountered in Date routine FTXP12S.
20000068	This is not a valid Tax Type. Please specify another Tax Type.

20000069	You are not enrolled at this Tax Payment Number. Please call 1/800 (English: 272-9872, Spanish: 945-9200).
20000070	The 4-digit PIN is invalid for this tax ID number.
20000071	We cannot find this Tax Identification Number and PIN combination.
20000113	Unable to assign file I.D. for scheduling.

The above tables are provided to illustrate the format and content of data structures that embodiments of EFTPS-PC 122 might use to submit tax data to TPS 130 for processing. As those skilled in the art are well aware, EFTPS-PC 122 could accommodate other data submission requirements that TPS 130 might have.

COMMUNICATIONS PROCESS OVERVIEW

In order to send tax data to TPS 130, EFTPS-PC 122 initiates a communications process with TPS 130. FIG. 4 shows a flow diagram of an example of a communications interaction between the systems in which two sets of RMBs 310 are exchanged. Referring to FIG. 4, at step 402 TPS 130 is listening for incoming TCP/IP messages. At step 404 EFTPS-PC 122 uses a modem to dial TPS 130, at step 406 the modem connects, and at step 408 EFTPS-PC 122 follows any login procedure that TPS 130 requires. At step 410, EFTPS-PC 122 makes a TCP/IP connection to the IP address for TPS 130, and TPS 130 accepts the connection at step 412.

At step 414, using TCP/IP, EFTPS-PC 122 sends a Transaction Initiation Message (TIM) to TPS 130, which TPS 130 receives at step 416. EFTPS-PC 122 transmits the TIM once prior to sending the first RMB 310. The TIM is a fifty byte ASCII string, the contents of which are provided to software vendors when they register with a Treasury Financial Agent to develop EFTPS-PC 122 software. TPS 130 does not send a response to the TIM, so EFTPS-PC 122 can start sending RMBs 310 if TCP/IP indicates that the TIM transmission was successful. Note that TPS 130 may transmit broadcast messages to EFTPS-PC 122 at the time the connection is initially made, and therefore, EFTPS-PC 122 receives and displays any broadcast messages from TPS 130 before sending the first RMB 310.

At this point, EFTPS-PC 122 and TPS 130 exchange information sequentially. Execution continues at step 418 when EFTPS-PC 122 sends a first RMB 310 (including send Business Events 210 containing tax data), which is received by TPS 130 at step 420. TPS 130 processes the tax data, and at step 422 TPS 130 sends a first response RMB 310, which EFTPS-PC 122 receives at step 424. This sequential exchange repeats for the second RMB 310, as illustrated in steps 426-432. After receiving the final response RMB 310, EFTPS-PC 122 hangs up the modem at step 434.

FIG. 4 illustrates the exchange of two sets of RMBs 310; however, those skilled in the art will understand that additional sets could be exchanged by repeating steps 426-432. Further, those skilled in the art will understand that embodiments of EFTPS-PC 122 could use any communications process accepted by TPS 130.

3. IMPLEMENTING EFTPS-PC

EFTPS-PC 122 is installed on a standard personal computer (PC) configured as follows:

- Hardware: Intel compatible PC with a minimum 386SX processor (486 processor or higher recommended).
- Memory: Minimum of 4 MB RAM (8 MB of RAM recommended).
- Hard Disk Drive: Minimum of 7MB of available disk space.
- Operating System: Microsoft Windows 3.1 or higher.
- Modem: Hayes-compatible modem capable of running at a minimum 9600 baud rate (faster baud rate is recommended).

The key functionality of EFTPS-PC 122 is implemented with Microsoft Access, a relational database system; a portion of the communications module is implemented in the C programming language. Those skilled in the art will understand that alternative embodiments of EFTPS-PC 122 could be implemented using other data input and storage systems (*e.g.*, spreadsheet programs), using other relational database systems (*e.g.*, Oracle or Informix), or using other programming languages (*e.g.*, C++ or Visual Basic). Other embodiments of EFTPS-PC 122 could run under other operating systems (*e.g.* Unix or Macintosh) and could be installed on any appropriate hardware.

EFTPS-PC 122 supports automated software installation. For example, a user installing the software in a Windows 3.1 environment simply has to insert the correct program disk in the drive, select File and Run from the Program Manager, and follow the directions displayed on the screen. The installation process loads files from the program disks on to the hard drive of client PC 120.

4. OPERATING EFTPS-PC

The following sections describe an embodiment of EFTPS-PC 122 implemented with design and functional features that are common in Microsoft Windows applications. These features include: accepting user input from a mouse or keyboard; starting EFTPS-PC 122 when the user double-clicks on an application icon; obtaining user input from dialog box fields; providing Control Menu items that allow the user to close or restore a window; and executing EFTPS-PC 122 options when the user selects an option button. These and other standard Microsoft Windows features are well known to those skilled in the art and need not be described in detail here. See for example, any Microsoft Windows User's Guide. The following detailed description of EFTPS-PC 122, therefore, discusses only those features that are specific to EFTPS-PC 122 functionality and operation. For example, it is understood that the user knows how to use a Browse button to locate a file and knows how to use the items on a File Menu to setup a printer.

As previously noted, the key functionality of EFTPS-PC 122 is implemented with Microsoft Access. This means that EFTPS-PC 122 stores information (*e.g.*, data input by a user and lists of tax types or error codes) in tables, which are stored in one or more Access databases. EFTPS-PC 122 processes this information using standard Access features and capabilities (*e.g.*, queries, forms, reports, macros, and modules). Because such features and capabilities are well known to those skilled in the art, only those that are unique to EFTPS-PC 122 are discussed herein. For example, it is understood that a user could select a particular data record from a set of displayed records by clicking on a record pointer button or, alternatively, a user could scroll through a set of records using a record selector bar. It is also understood that a user can navigate between screens by selecting an appropriately labeled button (*e.g.*, a

Back button) to return to the previous screen. For additional information, see the Microsoft Access User's Guide or the Access online help function.

As an overview of how a user operates EFTPS-PC 122, FIG. 5 shows a flow diagram of the major functions of one embodiment of EFTPS-PC 122. The flow diagram does not indicate a next action at the end of the function branches because, as those skilled in the art understand, Microsoft Windows applications are generally event driven. In other words, a user performs EFTPS-PC 122 functions in any reasonable order, and after a function terminates it is up to the user to initiate the next action.

4.1. EFTPS-PC Program Group

EFTPS-PC 122 functionality is divided into two components. One component, "Make Payments" includes functionality for making payments and performing administrative tasks. The other component, "Repair and Compress" is used for repairing and maintaining EFTPS-PC 122 databases. When a user opens the EFTPS-PC 122 Program Group, icons corresponding to the two components are displayed. As those skilled in the art will appreciate, EFTPS-PC 122 functionality could be divided into additional components or combined in one component. The following sections describe EFTPS-PC 122 functionality in detail.

4.2. Make Payments Icon

When the user selects a Make Payments icon from an EFTPS-PC 122 Program Group, EFTPS-PC 122 presents a Main Menu as a window including a set of buttons. Each button corresponds to, and allows the user to invoke, one of the EFTPS-PC 122 major functions: Enter, View, Edit, Send, Administration, and Exit. The View, Edit, and Administration functions are, in turn, further divided into sub-functions. Thus, when the user selects View, Edit, or Administration, EFTPS-PC 122 presents a Sub-Menu window that includes buttons for the appropriate sub-functions. EFTPS-PC 122 also uses a menu bar at the top of many windows to provide standard windows menu items including: File, Search, and Help. Some menu bars also include a User item, which is specific to EFTPS-PC 122. This item allows the user to invoke a View Special Fields function for entering and viewing optional user fields, discussed in the section entitled "Enter Function." Other techniques, well known to

those skilled in the art, can be used to allow the user to select an EFTPS-PC 122 function. For example, other embodiments of EFTPS-PC 122 could allow a user to select a function from a drop-down menu list or from a dialog box radio button.

Referring to FIG. 5, execution starts at step 505 when EFTPS-PC 122 obtains the user's name and password, which together form the user's logon. EFTPS-PC 122 verifies that the logon is valid. If the logon is invalid, EFTPS-PC 122 displays an error message and allows the user to try again or cancel the logon procedure. Once a valid logon is obtained, EFTPS-PC 122 displays the EFTPS-PC 122 Main Menu. Those skilled in the art understand that other embodiments of EFTPS-PC 122 could use other logon procedures, or might not require a logon procedure at all.

Execution continues at step 510 when the user selects one of the Main Menu major functions: Enter, View, Edit, Send, Administration, or Exit. Each of these functions is described in detail in the following sections.

4.2.1. Enter Function

The Enter function is used to enter and validate tax data. EFTPS-PC 122 collects tax data as ASCII input and stores it in an Access database table (*e.g.*, a payments table). Each row in such a table (*i.e.*, each record) includes columns of tax data entries (*i.e.*, tax data fields). EFTPS-PC 122 uses other Access database tables for internal functions such as temporary storage and data validation. All of these tables, which are referred to herein collectively as the "EFTPS-PC 122 database," are described in detail in "Appendix B: Database Tables." As those skilled in the art understand, other embodiments of EFTPS-PC 122 could use alternative database table designs.

If the user selects Enter at step 510 of FIG. 5, EFTPS-PC 122 displays a data entry screen, such as Enter Payments screen 600, illustrated in FIG. 6, to accept data entered by the user. If EFTPS-PC 122 requires that the user enter data for a particular tax data field (*i.e.*, a required data field), a corresponding data entry field is displayed. For example, if Taxpayer Identification Number (TIN), Personal Identification Number (PIN), Tax Form, Reason Code, Tax Period, Amount, Verification Code, and Requested Settlement Date are required tax data fields, data entry fields 602, 604, 606, 608, 610, 612, 614, and 616 appear on Enter Payments screen 600.

EFTPS-PC 122 also accepts tax data for payment detail fields that are unique to specific tax forms, such as FICA Equivalent Amount, Industry Amount, and Supplemental Amount for a CT-1 tax form. EFTPS-PC 122 displays an additional dialog box, such as Payment Detail 618, on Enter Payments screen 600 to accept payment detail tax data.

In addition to tax data that EFTPS-PC 122 accepts for submission to TPS 130, EFTPS-PC 122 allows the user to display, and enter data for, two optional user fields, such as User Field 1 620 and User Field 2 622. The data in these optional fields is used solely by the user (*i.e.*, the data is not used by EFTPS-PC 122 or sent to TPS 130). For example, if an accounting firm uses EFTPS-PC 122 to collect and submit tax payment data for its clients, data used for sorting the tax data records can be entered in these user fields. To add user fields, the user selects the View Special Fields item from the User item on the Enter function window's menu bar. Data for the user fields can be entered in all records or in only a few.

Other embodiments of EFTPS-PC 122 could provide for additional user fields or other extended capabilities (*i.e.*, capabilities beyond those required for collecting and submitting tax data to TPS 130). In addition, embodiments of EFTPS-PC 122 could accept and send other tax data, such as data needed to enroll a taxpayer in EFTPS, if such data is accepted by TPS 130.

The user can enter data by typing it into a data entry field. Alternatively, for some fields, EFTPS-PC 122 presents the user with an associated set of choices from which the user can select one entry. For example, EFTPS-PC 122 presents choices for the Tax Form and Reason Code fields on drop-down selection lists. The user can enter amounts with or without a dollar sign or decimal point. If necessary, EFTPS-PC 122 adds a dollar sign and decimal point (after multiplying the amount by 100) to an amount data field display when the input focus moves to another data entry field.

EFTPS-PC 122 validates that the data entries satisfy validity criteria. For example, EFTPS-PC 122 verifies that each required data field contains an entry. EFTPS-PC 122 also validates data entries according to rules, such as those in the following table. If a required data field is empty, or if any data field contains invalid

data, EFTPS-PC 122 displays an error message on the screen. Those skilled in the art know that EFTPS-PC 122 can validate data entries according to any appropriate rules, in any appropriate order (*e.g.*, as each entry is made or after several entries are made). In some cases, the validity of one entry is dependent upon another entry (*e.g.*, the validity of a Reason Code entry or a Tax Period entry depends on the corresponding Tax Form entry).

Table K: Data Field Validation Rules

Field	Required	Field Rules
TIN	Yes	Must be 9 digits.
PIN	Yes	Must be 4 digits. Must enter TIN first.
Tax Form/Reason Code	Yes	Tax Form, Reason Code, and the combination must be valid per "Appendix A: Tax Form Reference Information."
Tax Period	Yes	Must be YYMM. Must enter Tax Form first. Cannot retransmit record if acknowledgment field is not null (*i.e.*, there is an EFT number in the record). Month must be valid per applicable Tax Code Conversion table in "Appendix A: Tax Form Reference Information."
Payment Amount	Yes	Total amount must be > 0 and <= 99,999,999.99.
Sub-category Amount	No	Sub-category amounts must be >=0 and <= 99,999,999.99. Sub-category amounts are not required, but if they are used, the sub-category code is required and cannot be duplicated in the payment detail list. The total of the sub-category amounts must equal the Payment Amount.
Verification Code	Yes	Two digits. See explanation following this table.
Settlement Date	Yes	MMDDYY
Tax Type Override	No	"Y" or "N" entry.

Threshold Override	No	"Y" or "N" entry.
Duplicate Override	No	"Y" or "N" entry.
FUTA Override	No	"Y" or "N" entry.
Filing Period Override	No	"Y" or "N" entry.

EFTPS-PC 122 uses the Verification Code to ensure that the user enters a payment amount correctly. The Verification Code is calculated based on the payment amount. For a payment amount of $3,650.31 the calculation is as follows: (1) add the digits in the payment amount (3+6+5+0+3+1 = 18), (2) count the number of digits in the payment amount, including two decimal places (3, 6, 5, 0, 3, 1 = 6), and (3) calculate the sum of the two numbers (18+6=24). Thus, the Verification Code entry for $3,650.31 is 24. Because the Verification Code is a two digit number, if necessary, a leading zero is added (*e.g.*, the code for a sum of 9 is 09) or the first digit is dropped (*e.g.*, the code for the sum of 136 is 36). As those skilled in the art understand, EFTPS-PC 122 can use any appropriate method to verify a payment amount entry.

EFTPS-PC 122 provides several buttons on Enter Payments screen 600 to allow the user to specify how the tax data record should be handled. Referring to FIG. 6, if an "X" appears in Ready To Send indicator box 624, EFTPS-PC 122 submits the tax data record in the next transmission to TPS 130. The user can turn off the "X," and hold the payment, by clicking on Ready To Send indicator box 624. To save the current tax data record the user selects a Save This Payment Record button, and to delete the current tax data record the user selects a Delete button.

As discussed above in the section entitled "Remote Message Block," TPS 130 may impose a limit of 100 Business Events 210 in a each RMB 310. Therefore, because each Business Event 210 contains the data from one tax data record, EFTPS-PC 122 limits the number of tax data records in the EFTPS-PC 122 database at any one time to 100 records, including any combination of new, held, and previously transmitted records. When the 100 record limit is reached, EFTPS-PC 122 does not allow the user to enter more records. To free up space within the 100 record limit the user could, for example, send records that are ready for transmission and then

delete those records that are accepted by TPS 130. Alternatively, the user could export completed records to an archival file as discussed in the section entitled "Administration Function" and delete them from the EFTPS-PC 122 database.

Those skilled in the art realize that other methods could be used to implement a limit on the number of records per transmission, if such a limit is necessary. For example, another embodiment of EFTPS-PC 122 could allow the user to store any reasonable number of records in the EFTPS-PC 122 database and simply limit the number of records that the user selects for transmission, as necessary.

4.2.2. View Function

The View function is used to view previously entered payments. If the user selects View at step 510 of FIG. 5, execution continues at step 520 where EFTPS-PC 122 presents the user with five buttons, one for each view option: (1) Summary View, (2) All Payments, (3) Sent Payments, (4) Unsent Payments, and (5) Rejected Payments. EFTPS-PC 122 invokes standard Access functions to display a summary report of the tax data records in summary form (for the Summary View option) and to allow the user to view individual records sequentially (for the detail view options).

Summary View. If the user selects the Summary View button, EFTPS-PC 122 displays information about the status of the records in the EFTPS-PC 122 database. EFTPS-PC 122 displays a screen such as Summary View screen 700, illustrated in FIG. 7. Each record is displayed on one line, and an arrowhead in the leftmost column points to the active record. The columns on Summary View screen 700 contain the data values for the following data fields:

Column 702: Payment ID is the last four digits of an eleven digit number that EFTPS-PC 122 assigns sequentially to tax data records. EFTPS-PC 122 uses these last four digits as the sequence number in BE Header 212 of Business Event 210 that contains the tax data for the record. This eleven digit sequence number is reset to "1" after the database is compressed. The section entitled "Repair and Compress Icon" discusses the Access Compress command.

Column 704: TIN is the Taxpayer Identification Number. The PIN is not listed for security reasons.

Column 706: Tax Form is the type of tax payment.

Column 708: Tax Period is the period for the transaction.

Column 710: Amount is the amount of money to be paid.

Column 712: Request Settle Date is the date requested for settlement of the transaction.

Column 714: Actual Settle Date is the date the transaction was actually settled. This date only appears if it is different from the requested settlement date.

Column 716: Ready is the transmission status. An "X" indicates that the record is ready for transmission.

Column 718: Sent is the number of times the record has been sent. A "0" indicates that the record has never been transmitted.

Column 720: EFT Number is a 15-digit number indicating that the record has been successfully transmitted to TPS 130. If no number appears, the record needs to be sent or edited and sent again. The user should make a note of this number because it is the only acknowledgment TPS 130 provides for a successful transaction.

Column 722: Error is an indicator that a message is associated with the record. An "X" in this column indicates that there is a message that the user can view with the Edit function, which is described in the section entitled "Edit Function."

Column 724: NOEFT is an indicator that there is no EFT number for this record. An "X" in this column indicates that EFTPS-PC 122 sent the record to TPS 130, but that no acknowledgment was received.

All Payments, Sent Payments, Unsent Payments, and Rejected Payments. To sequentially view complete details of tax data records, the user can select one of the detail View function option buttons: All Payments (for all entered records), Sent Payments (for only the records sent to TPS 130), Unsent Payments (for only the records not sent to TPS 130), and Rejected Payments (for only records rejected by TPS 130). EFTPS-PC 122 invokes standard Access functions to retrieve and display the records for a particular View function option.

In addition to the fields for which the user entered data with the Enter function, the following fields are also displayed: Actual Settlement Date, EFT Number, Last Modified By (indicating a user name), and override indicators (described in the section entitled "Edit Function"). For rejected payments, the reason for the rejection is displayed as a message at the bottom of the display. If multiple messages exist, the user can scroll through them.

4.2.3. Edit Function

The Edit function is used to edit a record before it is sent to, or after it is rejected by, TPS 130. If the user selects Edit at step 510 of FIG. 5, execution continues at step 525 where EFTPS-PC 122 presents the user with two buttons, one for each Edit function option: (1) Unsent Payments and (2) Rejected Payments. EFTPS-PC 122 invokes standard Access functions to display the appropriate records for the option and to allow the user to navigate through the records in order to edit individual data fields.

Unsent Payments. If the user selects the Unsent Payments button, EFTPS-PC 122 executes a procedure for editing unsent payments, such as Unsent Payments procedure 800, illustrated in FIG. 8. Referring to FIG. 8, at step 802, EFTPS-PC 122 opens a "payments" form to display a screen for editing payments that is similar to Enter Payments screen 600, illustrated in FIG. 6. At step 804 EFTPS-PC 122 selects the records that are marked in the EFTPS-PC 122 database as "unsent." Then at step 806, EFTPS-PC 122 sets the editing property so that the user can only edit data fields or delete records. If the user wants to add new records, the Enter function is used. EFTPS-PC 122 turns on the Access navigation capabilities at step 808 and sets the caption of the window to "Edit Unsent Payments" at step 810.

Lastly, at step 812, EFTPS-PC 122 sets to visible (*i.e.*, displays) data fields that are not displayed on Enter Payments screen 600. These fields include Payment ID (which is displayed to the left of TIN data field 602), along with User Field 1 620 and User Field 2 622, described above. In addition, several override indicator boxes are displayed below Ready To Send indicator box 624. The override indictors, which are selected and deselected in the same way as Ready To Send

indicator box 624, are used to implement an Override function, which allows the user to override certain of the standard limits as follows:

Override Tax Type. When a taxpayer enrolls in the EFTPS program, the taxpayer is pre-qualified to enter data for certain tax types. If a record is rejected because the taxpayer is not qualified for that tax type, the user can select this option and resubmit the record.

Override Threshold. When the amount of the tax payment exceeds the limit (as pre-defined by the taxpayer during enrollment) for a tax form type, the payment may be rejected. The user can select this option to override the amount threshold and then resubmit the record.

Override Duplicate. TPS 130 automatically rejects duplicate records. If EFTPS-PC 122 sent a record but did not receive a response, it is possible that TPS 130 received the information, but was unable to transmit a response due to a communications problems. If the user resubmits the payment and a duplicate record error is returned, the user can select this option to resubmit the record.

Override FUTA. The user can select this option to override FUTA standard limits.

Override Filing Period. The user can select this option to override the filing periods for a particular tax form.

Rejected Payments. If the user selects the Rejected Payments button from the Edit function, EFTPS-PC 122 executes a procedure analogous Unsent Payments procedure 800. EFTPS-PC 122 simply substitutes a "No Acknowledgment Query" for the "Unsent Query" at step 804. Note that in order to resubmit a record containing previously rejected payment data, the user needs to enter the PIN again. If the PIN is not present when the user tries to resubmit the record, a dialog box appears listing those records missing PINs. If this occurs, the user returns to the Edit function and enters PINs for the identified records.

4.2.4. Send Function

The Send function is used to submit tax data to TPS 130 for processing. If the user selects Send at step 510 of FIG. 5, execution continues at step 530 where

EFTPS-PC 122 displays a screen, such as Summary View screen 700, so that the user can review and/or edit the data before it is sent to TPS 130. To edit a record, the user selects the record's row and then selects an Edit button. EFTPS-PC 122 displays an Edit Payments screen and allows the user to edit the selected record, as described in the section entitled "Edit Function," provided that the user has editing access. When the user is done with any editing, the user selects a Back button to return to Summary View screen 700.

At any point prior to sending the tax data, if the user wants to hold back any records from being sent to TPS 130, the user can remove the "X" in Ready column 716 for those records. When the user is ready to send the selected tax data records, the user selects a Send button. As a precaution, EFTPS-PC 122 verifies that the user wants to transmit the data. If the user selects an OK button, EFTPS-PC 122 executes a procedure for sending tax data to TPS 130, such as Send procedure 900, illustrated in FIGS. 9A and 9B.

Referring to FIG. 9, EFTPS-PC 122 initializes the communications session at step 905. Assuming that a connection is made, at step 910 EFTPS-PC 122 sends a Transaction Initiation Message (TIM), as described previously in the section entitled "Communications Process Overview." At step 915 EFTPS-PC 122 verifies that the TIM was sent successfully, and if it was not, EFTPS-PC 122 generates an error message at step 920, before exiting the procedure. If the TIM was sent successfully, execution continues at step 925 where EFTPS-PC 122 constructs Transmission Header 312 for RMB 310, as described above in the section entitled "Remote Message Block."

EFTPS-PC 122 starts a loop through the tax data records being sent to TPS 130. For each tax data record, EFTPS-PC 122 constructs one Business Event 210, which EFTPS-PC 122 stores in RMB 310 until RMB 310 is ready to send. Specifically, before constructing the next Business Event 210, at step 930 EFTPS-PC 122 checks to see if RMB 310 is ready to send by testing if (1) the next Business Event 210 will put RMB 310 over the 4k bytes size limit, (2) RMB 310 already includes ten Business Events 210, or (3) there are no more Business Events 210 to store in RMB 310. If none of these tests is true, EFTPS-PC 122 builds

the next Business Event 210 and stores it in RMB 310, at step 935. EFTPS-PC 122 continues with the loop at step 930. These tests express the rules for building RMB 310 discussed in the section entitled "Remote Message Block." As noted in that section, these rules reflect TPS 130 specifications and, therefore, other embodiments of Send procedure 900 could use other tests at step 930.

When one of the tests at step 930 is true, EFTPS-PC 122 sends RMB 310 to TPS 130 at step 940. At step 945 EFTPS-PC 122 verifies that RMB 310 was sent successfully, and if it was not, EFTPS-PC 122 generates an error message at step 950, before exiting the procedure. If RMB 310 was sent successfully, execution continues at step 955 where EFTPS-PC 122 receives a response RMB 310 from TPS 130, using a blocking read with a time out.

If EFTPS-PC 122 does not receive a response RMB 310 before a time out, at step 965 EFTPS-PC 122 generates an error message, before exiting the procedure. If EFTPS-PC 122 does receive a response RMB 310, at step 960 EFTPS-PC 122 processes the response Business Events 210. EFTPS-PC 122 then checks if there are any more Business Events 210 to send to TPS 130. If there are no more (*i.e.*, all the tax data records have been processed), execution ends. Otherwise, execution continues with the loop at step 930.

During the communications session, EFTPS-PC 122 disables its other features and displays a screen with the status of the data being sent and received. When all of the tax data records have been sent to TPS 130 and the responses received, the status screen is removed and the user can continue to use EFTPS-PC 122 or exit the application.

Premature breaks in a communications session, however, are inevitable. For instance, transmission can be interrupted by the user prematurely turning off Client PC 120 or by problems with VAN 125. If transmission is interrupted after TPS 130 receives RMB 310 from EFTPS-PC 122, but before TPS 130 sends a response, the user may not know which tax data records have been accepted. If RMB 310 is resubmitted and it contains tax data records that TPS 130 has already received, the user will need to use the Override Duplicate indicator discussed in the section entitled "Edit Function."

4.2.5. Administration Function

The Administration function is used to perform several EFTPS-PC 122 administrative tasks. If the user selects Administration at step 510 of FIG. 5, execution continues at step 535 where EFTPS-PC 122 presents the user with six buttons, one for each Administration option: (1) Print Summary Report, (2) Import/Export, (3) Security, (4) Setup, (5) Delete Acknowledged Payments, and (6) Delete All Payments.

Print Summary Report. This option prints a copy of the record summary report displayed with the Summary View button, described in the section entitled "View Function."

Import/Export. This option imports records in a batch mode or exports records to an archival file. All data is imported and exported as an ASCII string in either a comma-delimited or fixed-field format. This means that each record is stored as a single line of characters in which the fields are separated by commas or have a defined length. Examples of import and export data file formats are included in "Appendix C: Import/Export Data Files." The user can create an import data file with any appropriate tool (*e.g.*, a word processor or a spreadsheet program) that can format the data as required by EFTPS-PC 122.

When the user selects the Import/Export button, EFTPS-PC 122 presents the user with eight buttons, one for each Import/Export option: (1) Export All Records To Fixed Field Width File, (2) Export Sent Records to Fixed Field Width File, (3) Export Acknowledged Records to Fixed Field Width File, (4) Export All Records to Comma Delimited File, (5) Export Sent Records to Comma Delimited File, (6) Export Acknowledged Records to Comma Delimited File, (7) Import From Fixed Field Width File, and (8) Import From Comma Delimited Field File.

When the user selects any of the Import/Export options, EFTPS-PC 122 displays a dialog box and suggests the name of the file to be imported or exported. For example, if the user selects one of the Fixed Field Width options the suggested file name could be *eftfix01.txt*, and if the user selects one of the Comma Delimited Field options the suggested file name could be *eftdlm01.txt*. The user can accept the suggested name, type in a new name, or use a Browse button to locate another file.

If the user selects one of the import options, EFTPS-PC 122 executes a procedure for importing a tax data file, such as File Import procedure 1000, illustrated in FIG. 10. Referring to FIG. 10, at step 1002 EFTPS-PC 122 determines the type of import file (*i.e.*, fixed field or comma delimited). If the file is fixed field, EFTPS-PC 122 imports the data at step 1004, and if the file is comma delimited, EFTPS-PC 122 imports the data at step 1006. In either case, the data is imported into a temporary table.

At step 1008, EFTPS-PC 122 verifies if there are any import errors according to rules such as those in "Table K: Data Field Validation Rules." If there were errors, at step 1010 EFTPS-PC 122 verifies that the temporary table contained at least one record, before deleting the temporary table records at step 1012. At step 1014, EFTPS-PC 122 notifies the user that the import process is being canceled. At step 1016 EFTPS-PC 122 displays the import errors to the user, before exiting the procedure.

If EFTPS-PC 122 found no errors at step 1008, execution continues at step 1018 where EFTPS-PC 122 gets a count of the total number of records already in the EFTPS-PC 122 database plus those in the import file. Because EFTPS-PC 122 limits the number of tax data records in the EFTPS-PC 122 database at any one time to 100 records, no more than 100 records can be imported at a time. At step 1020 EFTPS-PC 122 checks if the total number of records is greater than 100. If there are too many records, at step 1022 EFTPS-PC 122 notifies the user that the import process is being canceled. At step 1024 EFTPS-PC 122 deletes the records in the temporary table, before exiting the procedure. Other embodiments of EFTPS-PC 122 could control the number of records in the database using different procedures. For example, another embodiment of EFTPS-PC 122 could verify that the database was empty before importing a file, and then check that the number of records in the file did not exceed 100. Yet another embodiment might not limit the number of records being imported, and simply read the import file if no errors were detected.

If the number of records did not exceed 100 at step 1020, execution continues at step 1026 where EFTPS-PC 122 uses the import file as the import query. At step 1028 EFTPS-PC 122 updates the recordset, and at step 1030 EFTPS-PC 122

notifies the user that the import succeeded. To finish the import process, execution continues at step 1024 where EFTPS-PC 122 deletes the records in the temporary table, before exiting the procedure.

If the user selects one of the export options, EFTPS-PC 122 executes a procedure for exporting a tax data file, such as File Export procedure 1100, illustrated in FIG. 11. Referring to FIG. 11, at step 1102 EFTPS-PC 122 opens a recordset with a query matching the export option the user selected (*e.g.*, all records, sent records, or acknowledged records). At step 1104 EFTPS-PC 122 verifies that the recordset contains at least one record. If there are no records, at step 1106 EFTPS-PC 122 notifies the user that the export process is being canceled, before exiting the procedure.

If at step 1104 EFTPS-PC 122 finds that the recordset contains at least one record, EFTPS-PC 122 gets a count of the number of records to export at step 1108. At step 1110, EFTPS-PC 122 asks if the user wants a printed summary report of the records, and if the user requests the report, EFTPS-PC 122 generates and prints the report at step 1112. In either case, at step 1114 EFTPS-PC 122 executes a file export routine that corresponds to the file export option selected by the user (*e.g.*, either fixed field or comma delimited field format for either all records, sent records, or acknowledged records).

At step 1116 EFTPS-PC 122 asks if the user wants to delete the exported records from the EFTPS-PC 122 database, and at step 1118 EFTPS-PC 122 checks the user's response. If the user wants to delete the records, EFTPS-PC 122 does so at step 1120. In either case, execution continues at step 1122 where EFTPS-PC 122 updates the recordset. To finish the export process, at step 1124 EFTPS-PC 122 notifies the user that the export succeeded, before exiting the procedure.

Security. This option serves the dual purpose of permitting the system administrator to authorize user access and allowing individual users to change passwords. When a user starts EFTPS-PC 122, a Logon dialog screen is displayed, requesting a name and a password. The name is the user's logon (not case sensitive) which is secured by the user's password (case sensitive). EFTPS-PC 122 starts with three default logons and three corresponding passwords:

Logon	Password
Administrator	administrator
Manager	manager
Data	data

A user logging on as "Data" is a member of the Data Entry Group and has permission to add new payments, view existing payments, and import or export payment records. A Data user does not have permission to set up the modem, send payments, edit or change existing data, or add or administer user logons.

As user logging on as "Manager" is a member of the Managers Group and has permission to do everything a Data user can do, plus edit or change existing data and transmit payment data. A Manager user does not have permission to set up the modem or to add or administer user logons.

A user logging on as "Administrator" is a member of the Administrators Group and has permission to do everything a Manager user can do, plus set up the modem and add or administer user logons.

Setup. This option provides the means for configuring the communications data needed prior to any communications with TPS 130. If the user selects the Setup option, EFTPS-PC 122 displays a Modem Setup dialog box. The dialog box includes data fields for entering communications parameters (*e.g.*, communications port and baud rate), host parameters (*e.g.*, IP address, port number, and site ID), modem type, and dial preferences (*e.g.*, logon profile, host telephone number, user name, and password). In one embodiment of EFTPS-PC 122, the logon profile is simply a synonym for the host telephone number, and the password field, which controls access to TPS 130, is always blank.

If the user selects a Save button on the dialog box after entering communications configuration data values, EFTPS-PC 122 gets the data values from those fields. To ensure that it gets accurate and complete communications data, EFTPS-PC 122 can take additional steps. First, some data values, such as the IP address and the port number, are pre-configured to eliminate user input errors. Second, if any required field (*e.g.*, the primary telephone number) is blank, the user

cannot save the configuration. Third, before accepting new data values, an extra dialog box is displayed to verify that the user wants to overwrite a previous setup.

Delete Acknowledged Payments. This option deletes all tax data records that have been sent and successfully acknowledged with an EFT number. Before selecting this option, the user may want to export the records to a file to save the EFT numbers because this is the only proof of the transaction provided by TPS 130. Before deleting the records from the EFTPS-PC 122 database, EFTPS-PC 122 verifies that the user has the appropriate user access, as described above in the Security option. As a precaution, EFTPS-PC 122 also displays a message box asking if the user is sure about deleting the acknowledged payments and only proceeds if the user selects a Yes button. Lastly, before deleting the payments, EFTPS-PC 122 asks if the user wants a printed summary report of the payments to be deleted.

Delete All Payments. This option deletes all tax data records in the EFTPS-PC 122 database, and is otherwise similar to the Delete Acknowledged Payments option.

4.2.6.

The Exit function is used to terminate EFTPS-PC 122.

4.2.7. Help Menu

Online help is a standard Windows function that the user can access in a variety of ways. EFTPS-PC 122 provides access to online help by including a Help item on window menu bars. Alternatively EFTPS-PC 122 provides access if the user presses the F1 function key.

4.3. Repair and Compress Icon

As with any database system, there are times when a database indexing system can become corrupted. For example, at the moment a record is being saved, the power to the building may fail. The next time the EFTPS-PC 122 database is accessed, the user receives an error message stating that the database is possibly corrupted and the user should elect the option to repair it. This is the purpose of the Repair and Compress icon in the EFTPS-PC Program Group. When the user selects the Repair and Compress icon, EFTPS-PC 122 automatically runs the standard Access Repair and Compress commands. EFTPS-PC 122 displays a message such as

"Repairing and Compressing the EFTPS-PC Database... Please wait" while the commands are executing. If the process completes successfully, EFTPS-PC 122 displays a message such as "The EFTPS-PC Database was Repaired and Compressed successfully." If errors are detected, EFTPS-PC 122 displays advisory messages. EFTPS-PC 122 uses an eleven digit sequence number for tax data records. After the database is compressed, this number is reset to "1."

As a precaution, EFTPS-PC 122 always runs Repair before Compress even if no error message indicates that the EFTPS-PC 122 database is corrupted. Those skilled in the art understand that EFTPS-PC 122 could provide access to the Repair and Compress commands individually and let the user invoke them separately. It is recommended that the EFTPS-PC 122 Repair and Compress component is run periodically (*e.g.*, once a month) as a preventive maintenance measure. If errors are detected, some records may have been lost. It is even possible that the entire set of records cannot be recovered. At this point, the only recourse the user has is to restore the EFTPS-PC 122 database from the last backup copy. Therefore, on a periodic basis, the system administrator should make a backup copy of the EFTPS-PC 122 database files.

5. Other Embodiments

Other embodiments of the invention could use any appropriate user interface to interact with EFTPS-PC 122 procedures. Such interfaces include, but are by no means limited to, other graphical user interfaces (GUIs), such as the X11 windows environment; interactive display of text-based menu lists of options; and command line interfaces that obtain system input from parameters entered on the command line. It will be appreciated by those skilled in the art that further embodiments of the invention may be made without departing from the spirit and scope of the invention as described herein. Such embodiments are intended to be within the scope of the appended claims.

Appendix A: Tax Form Reference Information

Special Requirements for Tax Types 941 and CT-1

Two tax types have special sub-category amount fields allowing entry of amounts up to $99,999,999.99. EFTPS-PC 122 allows the user to input the following data:

Tax Type 941

Social Security Amount

Medicare Amount

Tax Withholding Amount

Tax Type CT-1

FICA Equivalent Amount

Industry Amount

Supplemental Amount

Special Requirements for Tax Types 720 and 720M

Tax types 720 and 720M allow amount information (up to $99,999,999.99) against specific sub-category codes. EFTPS-PC 122 allows the user to input up to 10 sub-category codes and amounts.

Tax Reason Codes

Code	Reason Description
0	Payment initiating backup withholding or Amended Return or: Prompt Assessment Billing Assembly via Form 3552
2	Payment due on an extension or with Form 8736 or: Application for Extension-Excise, Income & Others via Form 2758
4	A deficiency assessed by IRS or an advance payment for a CP2000
5	Federal Tax Deposit
6	An estimated payment or a Federal Tax Deposit
7	Payment due with a return, extension, Form 8800 or an IRS notice or: Installment Agreement Request - via Form 9465

Note: Each tax form has an associated tax reason code. Not all reasons are applicable to every tax form.

The following are the applicable reason codes for specific tax form types:

Tax Forms 11-C, 730, 706A, 706GS(D), 706GS(T), 926, 990, 990BL, 1041A, 1065, 1066, 1120DISC, 2290, 2438, 3520, 4720, 5227, 5329, 5811, 6069, IRC7803(c), 8288, 8404, 8612, 8613, 8697, 8725, 8752, 8804: 0, 2, 7

Tax Forms 706, 709, 990C, 990T, 1120, 1041, 990PF: 0, 2, 6, 7

Tax Forms 940, 943: 0, 2, 4, 5, 7

Tax Forms 945, 1042: 0, 2, 5, 7

Tax Form 1040: 0, 2, 4, 6, 7

Tax Form 941: 0, 2, 4, 5, 7

Tax Form CT-1: 0, 2, 5, 7

Tax Form 720: 0, 2, 5, 7

Tax Form 720M: 0, 2, 7

Tax Code Conversion Table for Business Taxpayers

11-C Special Tax Return & Application for Registry-Wagering	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	01117	Jan-Dec
706A US Additional Tax Return	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	70617	Jan-Dec
706GS(D) Generation-Skipping Transfer Tax for Distribution	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	70627	December
706GS(T) Generation-Skipping Transfer Tax for Termination	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	70637	December
720 Quarterly Excise Tax	**Tax Code**	**Valid Months**
Federal Tax Deposit (with optional sub-categories)	72005	March, June, Sept, Dec
Payment due with a tax return, or an IRS notice	72007	
720M Monthly Excise Tax	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice (with optional sub-categories	07207	March, June, September, December
730 Tax on Wagering	**Tax Code**	**Valid Months**

Payment due with a tax return, or an IRS notice	07307	Jan-Dec
926 Return by Transferor of Property to Foreign Corporation, Estate, Trust, or Partnership	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	09267	December
940 Employer's Annual Unemployment Tax Return	**Tax Code**	**Valid Months**
Federal Tax Deposit	09405	December
Payment due with a tax return, or an IRS notice	09407	
A deficiency assessed by IRS	09404	
941 Employer's Quarterly Tax Return	**Tax Code**	**Valid Months**
Federal Tax Deposit (with optional sub-categories)	94105	March, June
Payment due with a tax return, or an IRS notice	94107	Sept, December
A deficiency assessed by IRS	94104	
943 Employer's Annual Tax for Agricultural Employees	**Tax Code**	**Valid Months**
Federal Tax Deposit	09435	December
Payment due with a tax return, or an IRS notice	09437	
A deficiency assessed by IRS	09434	
945 Withheld Federal Income Tax	**Tax Code**	**Valid Months**
Federal Tax Deposit	09455	December
Payment due with a tax return, or an IRS notice	09457	
Payment initiating backup withholding	09450	
990 Organization Exempt Income Tax	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	09907	Jan-Dec (FY - month)
990BL Information & Initial Excise Return for Black Lung Benefit Trust	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	99017	Jan-Dec (FY - month)
990C Farmers Cooperative Association Income Tax	**Tax Code**	**Valid Months**
Federal Tax Deposit	99026	Jan-Dec (FY - month)
Payment due with a tax return, or an IRS notice	99027	
Payment due on an extension	99022	

990PF Return of Private Foundation Tax	**Tax Code**	**Valid Months**
Federal Tax Deposit	99036	Jan - Dec (FY - month)
Payment due with a tax return, or an IRS notice	99037	
990T Exempt Organization Income Tax	**Tax Code**	**Valid Months**
Federal Tax Deposit	99046	Jan - Dec (FY - month)
Payment due with a tax return, or an IRS notice	99047	
Payment due on an extension	99042	
1041 Fiduciary Income Tax Return	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	10417	Jan-Dec (FY - month)
An estimated payment	10416	
Payment on an extension	10412	
1041A US Information Return Trust - Trust Accumulation of Charitable Amounts	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	14117	Jan-Dec (FY - month)
1042 Annual Withholding Tax for Income of Foreign Persons	**Tax Code**	**Valid Months**
Federal Tax Deposit	10425	December
Payment due with a tax return, or an IRS notice	10427	
1065 Partnership Return of Income	**Tax Code**	**Valid Months**
Payment due with form 8800	10657	Jan-Dec (FY - month)
Payment due with form 8736	10652	
1066 Real Estate Mortgage Investment Conduit Income Tax	**Tax Code**	**Valid Months**
A payment due on an IRS notice	10667	Jan - Dec
1120 Corporation Income Tax	**Tax Code**	**Valid Months**
Federal Tax Deposit	11206	Jan-Dec (FY - month)
Payment due with a tax return, or an IRS notice	11207	
Payment due on an extension	11202	
1120DISC Domestic International Sales Corporation Return	**Tax Code**	**Valid Months**
A payment due with a tax return, or an IRS notice	11217	Jan-Dec (FY - month)
2290 Heavy Vehicle Use Tax Return	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	22907	Jan-Dec

2438 Regulated Investment Company - Undistributed Capital Gains	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	24387	December
3520 Information Return - Creation/ Transfer to Foreign Trusts	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	35207	December
4720 Certain Excise Tax on Charities	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	47207	Jan-Dec
5227 Split-Interest Trust Information Return	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	52277	Jan-Dec (FY - month)
5811 Examination Return Preparer Case Closing Document	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	58117	Jan-Dec
6069 Excess Tax on Excise Contribution to Black Lung Trust	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	60697	December
IRC7803(c) Information Return for Tax Exempt Private Activity Bond Issue	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	80387	Jan-Dec
8288 Withholding Return for Disposition by Foreign Persons of US Property	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	82887	Jan-Dec
8404 Interest Charge on DISC-Related Deferred Tax Liability	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	84047	Jan-Dec
8612 Return of Excise Tax on Undistributed Income of Real Estate Investment Trust	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	86127	Jan-Dec
8613 Return of Excise Tax on Undistributed Income of Regulated Investment Companies	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	86137	Jan-Dec

8697 Interest Under the Look-Back Method for Completed Long-Term Contracts	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	86977	Jan-Dec
8725 Excise Tax of Greenmail	**Tax Code**	**Valid Months**
Payment due on an IRS notice	87257	Jan-Dec
8752 Required Payment or Refund Under Section 7519	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	87527	December
8804 Annual Partnership Withholding Tax	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	88047	Jan-Dec
CT-1 Railroad Retirement Tax and Unemployment Return	**Tax Code**	**Valid Months**
Federal Tax Deposit (with optional sub-categories)	10005	December
Payment due with a tax return, or an IRS notice	10007	

Tax Code Conversion Table for Individual Taxpayers

706 Estate Tax	**Tax Code**	**Valid Months**
An estimated payment	07066	- 00 -
Payment due with a tax return, an extension, or an IRS notice	07067	
706A US Additional Tax Return	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	70617	Jan-Dec
706GS(D) Generation-Skipping Transfer Tax Return for Distribution	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	70627	December
709 Gift Tax Return	**Tax Code**	**Valid Months**
Payment due with a tax return, an extension, or an IRS notice	07097	December
An estimated payment	07096	
720M Monthly Federal Excise Tax Return	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice (with optional sub-categories)	07207	March, June, September & December

926 Return by Transferor of Property to Foreign Corporation, Estate, Trust or Partnership	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	09267	December
990BL Information & Initial Excise Tax Return for Black Lung Benefit Trust	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	99017	Jan-Dec (FY - month)
1040 Individual Income Tax	**Tax Code**	**Valid Months**
Estimated Payment (1040ES)	10406	December (or FY-month)
Payment due with a tax return, extension, or an IRS notice	10407	
An amended return	10400	
An advance payment for a CP2000	10404	
1066 Real Estate Mortgage Investment Conduit Income Tax	**Tax Code**	**Valid Months**
Payment due on an IRS notice	10667	Jan-Dec
1120DISC Domestic International Sales Corporation Return	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	11217	Jan-Dec (FY - month)
2438 Regulated Investment Company - Undistributed Capital Gains Tax Return	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	24387	December
3520 Information Return - Creation of, or Transfer to Certain Foreign Trusts	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	35207	December
5329 Return for Individual Retirement Arrangement Taxes	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	53297	Jan-Dec (FY month)
5811 Examination Return Preparer Case Closing Document	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	58117	Jan-Dec
6069 Return of Excess Tax on Excess Contribution to Black Lung Benefit Trust	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	60697	December

IRC7803(c) Information Return for Tax Exempt Private Activity	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	80387	Jan-Dec
8288 Withholding Tax Return for Disposition by Foreign Persons of US Property	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	82887	Jan-Dec
8404 Computation of Interest Charge on DISC-Related Deferred Tax Liability	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	84047	Jan-Dec
8612 Return of Excise Tax on Undistributed Income of Real Estate Investment Trust	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	86127	Jan-Dec
8613 Return of Excise Tax on Undistributed Income of Regulated Investment Companies	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	86137	Jan-Dec
8697 Interest Computation Under the Look-Back Method for Completed Long-Term Contracts	**Tax Code**	**Valid Months**
Payment due with a tax return, or an IRS notice	86977	Jan-Dec
8725 Excise Tax of Greenmail	**Tax Code**	**Valid Months**
Payment due on an IRS notice	87257	Jan-Dec
Annual Return for Partnership Withholding Tax		**Valid Months**
Payment due with a tax return, or an IRS notice		Jan-Dec

Appendix B: Database Tables

Overview of Database Tables

Table Name	Content/Use
Build	Information that identifies which version of EFTPS-PC 122 is running when the user selects "About EFTPS-PC" from the Help menu.
Error Codes	TPS 130 error codes and corresponding message text.
IRS Numbers	Sub-category codes for Tax Types 720 and 720M.

Payment Error Table	Payment IDs and related errors used by EFTPS-PC 122 to process RMBs 310 from TPS 130.
payments	Tax data input and related information.
reason	Tax payment reason codes and corresponding descriptions.
Sequence_ Translation	Sequence numbers sent to TPS 130 and corresponding payment IDs used by EFTPS-PC 122.
tax type	Tax type codes and related information.
Temp Import	Temporary storage for imported data during processing.
work_swm_temp	Work area for validating temporary data.

Table: Build Columns

Build Number	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	1
	Column Width:	1275
	Data Updatable:	No
	Input Mask:	000
	Ordinal Position:	0
	Required:	No
	Source Field:	Build Number
	Source Table:	Build
	Validate On Set:	No
Release Date	**Type = Date/Time**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	1245
	Data Updatable:	No
	Format:	Short Date
	Ordinal Position:	1
	Required:	No
	Source Field:	Release Date
	Source Table:	Build
	Validate On Set:	No
Release Time	**Type = Date/Time**	**Size = 8**
	Allow Zero Length:	No

	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	1320
	Data Updatable:	No
	Format:	Medium Time
	Ordinal Position:	2
	Required:	No
	Source Field:	Release Time
	Source Table:	Build
	Validate On Set:	No
Last Import Export Delimited	**Type = Text**	**Size = 64**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	2700
	Data Updatable:	No
	Ordinal Position:	3
	Required:	No
	Source Field:	Last Import Export Delimited
	Source Table:	Build
	Validate On Set:	No
Last Import Export Fixed	**Type = Text**	**Size = 64**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	2355
	Data Updatable:	No
	Ordinal Position:	4
	Required:	No
	Source Field:	Last Import Export Fixed
	Source Table:	Build
	Validate On Set:	No

Table: Build Indexes

PrimaryKey	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	1

Foreign:	No
Ignore Nulls:	No
Name:	**PrimaryKey**
Primary:	Yes
Required:	Yes
Unique:	Yes
Fields:	Build Number, Ascending

Table: Error Codes Columns

Error Code	**Type = Text**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	1
	Column Width:	960
	Data Updatable:	No
	Description:	Error code from host.
	Ordinal Position:	0
	Required:	No
	Source Field:	Error Code
	Source Table:	Error Codes
	Validate On Set:	No
Error Description	**Type = Text**	**Size = 200**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	8040
	Data Updatable:	No
	Description:	Descriptive reason for error.
	Ordinal Position:	1
	Required:	No
	Source Field:	Error Description
	Source Table:	Error Codes
	Validate On Set:	No

Table: Error Codes Indexes

PrimaryKey	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	33
	Foreign:	No
	Ignore Nulls:	No
	Name:	**PrimaryKey**

Primary:	Yes
Required:	Yes
Unique:	Yes
Fields:	Error Code, Ascending

Table: IRS Numbers Columns

IRS Number	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	1
	Column Width:	600
	Data Updatable:	No
	Description:	IRS Numbers for Tax Type 720 & 720M
	Input Mask:	###
	Ordinal Position:	0
	Required:	No
	Source Field:	IRS Number
	Source Table:	IRS Number
	Validate On Set:	No
Description	**Type = Text**	**Size = 120**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	6945
	Data Updatable:	No
	Ordinal Position:	1
	Required:	No
	Source Field:	Description
	Source Table:	IRS Numbers
	Validate On Set:	No
order id	**Type = Number (Integer)**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Default Value:	0

	Description:	For ordering in numerical order
	Ordinal Position:	2
	Required:	No
	Source Field:	ORDER ID
	Source Table:	IRS Numbers
	Validate On Set:	No

Table: IRS Numbers Indexes

PrimaryKey	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	56
	Foreign:	No
	Ignore Nulls:	No
	Name:	PrimaryKey
	Primary:	Yes
	Required:	Yes
	Unique:	Yes
	Fields:	IRS Number, Ascending

Table: Payment Error Table Columns

Payment ID	**Type = Number (Long)**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	0
	Required:	No
	Source Field:	Payment ID
	Source Table:	Payment Error Table
	Validate On Set:	No
Error Code	**Type = Text**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	1
	Required:	No
	Source Field:	Error Code
	Source Table:	Payment Error Table
	Validate On Set:	No
Error Description	**Type = Text**	**Size = 200**
	Allow Zero Length:	No
	Attributes:	Variable Length

	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	2
	Required:	No
	Source Field:	Error Description
	Source Table:	Payment Error Table
	Validate On Set:	No
Error Tag	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	3
	Required:	No
	Source Field:	Error Tag
	Source Table:	Payment Error Table
	Validate On Set:	No

Table: Payment Error Table Indexes

Payment ID	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	0
	Foreign:	No
	Ignore Nulls:	No
	Name:	Payment ID
	Primary:	No
	Required:	No
	Unique:	No
	Fields:	Payment ID, Ascending

Table: payments Columns

Payment ID	**Type = Number (Long)**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Fixed Size, Auto-Increment
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	1
	Required:	No
	Source Field:	Payment ID
	Source Table:	payments
	Validate On Set:	No
User ID	**Type = Text**	**Size = 20**
	Allow Zero Length:	No
	Attributes:	Variable Length

	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	2
	Required:	No
	Source Field:	User ID
	Source Table:	payments
	Validate On Set:	No
tin	**Type = Text**	**Size = 9**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	3
	Required:	No
	Source Field:	tin
	Source Table:	payments
	Validate On Set:	No
pin	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	4
	Required:	No
	Source Field:	pin
	Source Table:	payments
	Validate On Set:	No
tax type code	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	5
	Required:	No
	Source Field:	tax type code
	Source Table:	payments
	Validate On Set:	No
reason code	**Type = Text**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	6
	Required:	No
	Source Field:	reason code
	Source Table:	payments
	Validate On Set:	No

tax period	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	7
	Required:	No
	Source Field:	tax period
	Source Table:	payments
	Validate On Set:	No
amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	8
	Required:	No
	Source Field:	amount
	Source Table:	payments
	Validate On Set:	No
verification code	**Type = Text**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	9
	Required:	No
	Source Field:	verification code
	Source Table:	payments
	Validate On Set:	No
requested settlement date	**Type = Date/Time**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	10
	Required:	No
	Source Field:	requested settlement date
	Source Table:	payments
	Validate On Set:	No
actual settlement date	**Type = Date/Time**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No

	Ordinal Position:	11
	Required:	No
	Source Field:	actual settlement date
	Source Table:	payments
	Validate On Set:	No
override tax type	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	12
	Required:	No
	Source Field:	override tax type
	Source Table:	payments
	Validate On Set:	No
override threshold	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	13
	Required:	No
	Source Field:	override threshold
	Source Table:	payments
	Validate On Set:	No
override duplicate	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	14
	Required:	No
	Source Field:	override duplicate
	Source Table:	payments
	Validate On Set:	No
futa override	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	15
	Required:	No
	Source Field:	futa override
	Source Table:	payments
	Validate On Set:	No
filing period override	**Type = Yes/No**	**Size = 1**

	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	16
	Required:	No
	Source Field:	filing period override
	Source Table:	payments
	Validate On Set:	No
subcategory count	**Type = Text**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	17
	Required:	No
	Source Field:	subcategory count
	Source Table:	payments
	Validate On Set:	No
ss amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	18
	Required:	No
	Source Field:	ss amount
	Source Table:	payments
	Validate On Set:	No
medicare amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	19
	Required:	No
	Source Field:	medicare amount
	Source Table:	payments
	Validate On Set:	No
tax wh amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	20
	Required:	No
	Source Field:	tax wh amount

	Source Table:	payments
	Validate On Set:	No
fica equivalent amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	21
	Required:	No
	Source Field:	fica equivalent amount
	Source Table:	payments
	Validate On Set:	No
industry amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	22
	Required:	No
	Source Field:	industry amount
	Source Table:	payments
	Validate On Set:	No
supplemental amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	23
	Required:	No
	Source Field:	supplemental amount
	Source Table:	payments
	Validate On Set:	No
irs#1	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	24
	Required:	No
	Source Field:	irs#1
	Source Table:	payments
	Validate On Set:	No
irs amount 1	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size

	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	25
	Required:	No
	Source Field:	irs amount 1
	Source Table:	payments
	Validate On Set:	No
irs#2	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	26
	Required:	No
	Source Field:	irs#2
	Source Table:	payments
	Validate On Set:	No
irs amount 2	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	27
	Required:	No
	Source Field:	irs amount 2
	Source Table:	payments
	Validate On Set:	No
irs#3	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	28
	Required:	No
	Source Field:	irs#3
	Source Table:	payments
	Validate On Set:	No
irs amount 3	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	29
	Required:	No
	Source Field:	irs amount 3
	Source Table:	payments
	Validate On Set:	No

irs#4	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	30
	Required:	No
	Source Field:	irs#4
	Source Table:	payments
	Validate On Set:	No
irs amount 4	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	31
	Required:	No
	Source Field:	irs amount 4
	Source Table:	payments
	Validate On Set:	No
irs#5	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	32
	Required:	No
	Source Field:	irs#5
	Source Table:	payments
	Validate On Set:	No
irs amount 5	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	33
	Required:	No
	Source Field:	irs amount 5
	Source Table:	payments
	Validate On Set:	No
irs#6	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	34
	Required:	No

	Source Field:	irs#6
	Source Table:	payments
	Validate On Set:	No
irs amount 6	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	35
	Required:	No
	Source Field:	irs amount 6
	Source Table:	payments
	Validate On Set:	No
irs#7	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	36
	Required:	No
	Source Field:	irs#7
	Source Table:	payments
	Validate On Set:	No
irs amount 7	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	37
	Required:	No
	Source Field:	irs amount 7
	Source Table:	payments
	Validate On Set:	No
irs#8	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	38
	Required:	No
	Source Field:	irs#8
	Source Table:	payments
	Validate On Set:	No
irs amount 8	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined

	Data Updatable:	No
	Ordinal Position:	39
	Required:	No
	Source Field:	irs amount 8
	Source Table:	payments
	Validate On Set:	No
irs#9	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	40
	Required:	No
	Source Field:	irs#9
	Source Table:	payments
	Validate On Set:	No
irs amount 9	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	41
	Required:	No
	Source Field:	irs amount 9
	Source Table:	payments
	Validate On Set:	No
irs#10	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	42
	Required:	No
	Source Field:	irs#10
	Source Table:	payments
	Validate On Set:	No
irs amount 10	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	43
	Required:	No
	Source Field:	irs amount 10
	Source Table:	payments
	Validate On Set:	No

sent	**Type = Number (Integer)**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	44
	Required:	No
	Source Field:	sent
	Source Table:	payments
	Validate On Set:	No
stage	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	45
	Required:	No
	Source Field:	stage
	Source Table:	payments
	Validate On Set:	No
error	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	46
	Required:	No
	Source Field:	error
	Source Table:	payments
	Validate On Set:	No
acknowledgment number	**Type = Text**	**Size = 15**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	47
	Required:	No
	Source Field:	acknowledgment number
	Source Table:	payments
	Validate On Set:	No
user field 1	**Type = Text**	**Size = 25**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No

	Ordinal Position:	48
	Required:	No
	Source Field:	user field 1
	Source Table:	payments
	Validate On Set:	No
user field 2	**Type = Text**	**Size = 25**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	49
	Required:	No
	Source Field:	user field 2
	Source Table:	payments
	Validate On Set:	No
error1	**Type = Text**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	50
	Required:	No
	Source Field:	error1
	Source Table:	payments
	Validate On Set:	No

Table: payments Indexes

PrimaryKey	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	5
	Foreign:	No
	Ignore Nulls:	No
	Name:	**PrimaryKey**
	Primary:	Yes
	Required:	Yes
	Unique:	Yes
	Fields:	Payment ID, Ascending
tax type	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	4
	Foreign:	No
	Ignore Nulls:	No
	Name:	tax type
	Primary:	No
	Required:	No
	Unique:	No

	Fields:	tax type code, Ascending
tin	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	5
	Foreign:	No
	Ignore Nulls:	No
	Name:	tin
	Primary:	No
	Required:	No
	Unique:	No
	Fields:	tin, Ascending

Table: reason Columns

Reason Code	**Type = Text**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	705
	Data Updatable:	No
	Description:	Reason for Tax Payment
	Input Mask:	#
	Ordinal Position:	0
	Required:	No
	Source Field:	Reason Code
	Source Table:	reason
	Validate On Set:	No
Reason Description	**Type = Text**	**Size = 120**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	8475
	Data Updatable:	No
	Description:	Description of the reason for this payment.
	Ordinal Position:	1
	Required:	No
	Source Field:	Reason Description
	Source Table:	reason
	Validate On Set:	No

Table: reason Indexes

PrimaryKey	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	6
	Foreign:	No
	Ignore Nulls:	No
	Name:	PrimaryKey
	Primary:	Yes
	Required:	Yes
	Unique:	Yes
	Fields:	Reason Code, Ascending

Table: Sequence_Translation Columns

Sequence	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Data Updatable:	No
	Ordinal Position:	0
	Required:	No
	Source Field:	Sequence
	Source Table:	Sequence_ Translation
	Validate On Set:	No
Payment ID	**Type = Number (Long)**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Data Updatable:	No
	Ordinal Position:	1
	Required:	No
	Source Field:	Payment ID
	Source Table:	Sequence_ Translation
	Validate On Set:	No

Table: Sequence_Translation Indexes

PrimaryKey	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	1
	Foreign:	No
	Ignore Nulls:	No
	Name:	PrimaryKey
	Primary:	Yes
	Required:	Yes

	Unique:	Yes
	Fields:	Sequence, Ascending

Table: tax type Columns

Tax Type Code	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	525
	Data Updatable:	No
	Description:	Tax Type code - 4 digit
	Input Mask:	####
	Ordinal Position:	0
	Required:	No
	Source Field:	Tax Type Code
	Source Table:	tax type
	Validate On Set:	No
	Validation Text:	MUST BE NUMBER
Tax Type Name	**Type = Text**	**Size = 10**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	960
	Data Updatable:	No
	Description:	Tax Type name - 4 character
	Ordinal Position:	1
	Required:	No
	Source Field:	Tax Type Name
	Source Table:	tax type
	Validate On Set:	No
ordering id	**Type = Number (Integer)**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	630
	Data Updatable:	No
	Decimal Places:	Auto
	Default Value:	0

	Description:	Allows ordering of pick list
	Ordinal Position:	2
	Required:	No
	Source Field:	ordering id
	Source Table:	tax type
	Validate On Set:	No
Tax Type Description	**Type = Text**	**Size = 85**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	7065
	Data Updatable:	No
	Description:	Description of the Tax Form Payment is for.
	Ordinal Position:	3
	Required:	No
	Source Field:	Tax Type Description
	Source Table:	tax type
	Validate On Set:	No

Table: tax type Indexes

PrimaryKey	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	45
	Foreign:	No
	Ignore Nulls:	No
	Name:	PrimaryKey
	Primary:	Yes
	Required:	Yes
	Unique:	Yes
	Fields:	Tax Type Code, Ascending

Table: Temp Import Columns

User ID	**Type = Text**	**Size = 20**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	1

	Required:	No
	Source Field:	User ID
	Source Table:	Temp Import
	Validate On Set:	No
tin	**Type = Text**	**Size = 9**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	2
	Required:	No
	Source Field:	tin
	Source Table:	Temp Import
	Validate On Set:	No
pin	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	3
	Required:	No
	Source Field:	pin
	Source Table:	Temp Import
	Validate On Set:	No
tax type code	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	4
	Required:	No
	Source Field:	tax type code
	Source Table:	Temp Import
	Validate On Set:	No
reason code	**Type = Text**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General

	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	5
	Required:	No
	Source Field:	reason code
	Source Table:	Temp Import
	Validate On Set:	No
tax period	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	6
	Required:	No
	Source Field:	tax period
	Source Table:	Temp Import
	Validate On Set:	No
amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	7
	Required:	No
	Source Field:	amount
	Source Table:	Temp Import
	Validate On Set:	No
verification code	**Type = Text**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	8
	Required:	No
	Source Field:	verification code

	Source Table:	Temp Import
	Validate On Set:	No
requested settlement date	**Type = Date/Time**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	9
	Required:	No
	Source Field:	requested settlement date
	Source Table:	Temp Import
	Validate On Set:	No
actual settlement date	**Type = Date/Time**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	10
	Required:	No
	Source Field:	actual settlement date
	Source Table:	Temp Import
	Validate On Set:	No
override tax type	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	11
	Required:	No
	Source Field:	override tax type
	Source Table:	Temp Import
	Validate On Set:	No
override threshold	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined

	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	12
	Required:	No
	Source Field:	override threshold
	Source Table:	Temp Import
	Validate On Set:	No
override duplicate	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	13
	Required:	No
	Source Field:	override duplicate
	Source Table:	Temp Import
	Validate On Set:	No
futa override	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	14
	Required:	No
	Source Field:	futa override
	Source Table:	Temp Import
	Validate On Set:	No
filing period override	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	15
	Required:	No
	Source Field:	filing period override

	Source Table:	Temp Import
	Validate On Set:	No
subcategory count	**Type = Text**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	16
	Required:	No
	Source Field:	subcategory count
	Source Table:	Temp Import
	Validate On Set:	No
ss amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	17
	Required:	No
	Source Field:	ss amount
	Source Table:	Temp Import
	Validate On Set:	No
medicare amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	18
	Required:	No
	Source Field:	medicare amount
	Source Table:	Temp Import
	Validate On Set:	No
tax wh amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined

	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	19
	Required:	No
	Source Field:	tax wh amount
	Source Table:	Temp Import
	Validate On Set:	No
fica equivalent amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	20
	Required:	No
	Source Field:	fica equivalent amount
	Source Table:	Temp Import
	Validate On Set:	No
industry amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	21
	Required:	No
	Source Field:	industry amount
	Source Table:	Temp Import
	Validate On Set:	No
supplemental amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default

	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	22
	Required:	No
	Source Field:	supplemental amount
	Source Table:	Temp Import
	Validate On Set:	No
irs#1	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	23
	Required:	No
	Source Field:	irs#1
	Source Table:	Temp Import
	Validate On Set:	No
irs amount 1	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	24
	Required:	No
	Source Field:	irs amount 1
	Source Table:	Temp Import
	Validate On Set:	No
irs#2	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	25
	Required:	No
	Source Field:	irs#2
	Source Table:	Temp Import
	Validate On Set:	No

irs amount 2	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	26
	Required:	No
	Source Field:	irs amount 2
	Source Table:	Temp Import
	Validate On Set:	No
irs#3	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	27
	Required:	No
	Source Field:	irs#3
	Source Table:	Temp Import
	Validate On Set:	No
irs amount 3	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	28
	Required:	No
	Source Field:	irs amount 3
	Source Table:	Temp Import
	Validate On Set:	No
irs#4	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default

	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	29
	Required:	No
	Source Field:	irs#4
	Source Table:	Temp Import
	Validate On Set:	No
irs amount 4	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	30
	Required:	No
	Source Field:	irs amount 4
	Source Table:	Temp Import
	Validate On Set:	No
irs#5	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	31
	Required:	No
	Source Field:	irs#5
	Source Table:	Temp Import
	Validate On Set:	No
irs amount 5	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	32
	Required:	No
	Source Field:	irs amount 5
	Source Table:	Temp Import

	Validate On Set:	No
irs#6	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	33
	Required:	No
	Source Field:	irs#6
	Source Table:	Temp Import
	Validate On Set:	No
irs amount 6	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	34
	Required:	No
	Source Field:	irs amount 6
	Source Table:	Temp Import
	Validate On Set:	No
irs#7	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	35
	Required:	No
	Source Field:	irs#7
	Source Table:	Temp Import
	Validate On Set:	No
irs amount 7	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default

	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	36
	Required:	No
	Source Field:	irs amount 7
	Source Table:	Temp Import
	Validate On Set:	No
irs#8	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	37
	Required:	No
	Source Field:	irs#8
	Source Table:	Temp Import
	Validate On Set:	No
irs amount 8	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	38
	Required:	No
	Source Field:	irs amount 8
	Source Table:	Temp Import
	Validate On Set:	No
irs#9	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	39
	Required:	No
	Source Field:	irs#9
	Source Table:	Temp Import

	Validate On Set:	No
irs amount 9	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	40
	Required:	No
	Source Field:	irs amount 9
	Source Table:	Temp Import
	Validate On Set:	No
irs#10	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	41
	Required:	No
	Source Field:	irs#10
	Source Table:	Temp Import
	Validate On Set:	No
irs amount 10	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	42
	Required:	No
	Source Field:	irs amount 10
	Source Table:	Temp Import
	Validate On Set:	No
sent	**Type = Number (Integer)**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined

	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Default Value:	0
	Ordinal Position:	43
	Required:	No
	Source Field:	sent
	Source Table:	Temp Import
	Validate On Set:	No
stage	**Type = Number (Integer)**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Default Value:	0
	Ordinal Position:	44
	Required:	No
	Source Field:	stage
	Source Table:	Temp Import
	Validate On Set:	No
error	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	45
	Required:	No
	Source Field:	error
	Source Table:	Temp Import
	Validate On Set:	No
acknowledgment number	**Type = Text**	**Size = 15**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default

	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	46
	Required:	No
	Source Field:	acknowledgment number
	Source Table:	Temp Import
	Validate On Set:	No
user field 1	**Type = Text**	**Size = 25**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	47
	Required:	No
	Source Field:	user field 1
	Source Table:	Temp Import
	Validate On Set:	No
user field 2	**Type = Text**	**Size = 25**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	48
	Required:	No
	Source Field:	user field 2
	Source Table:	Temp Import
	Validate On Set:	No
error1	**Type = Text**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	49
	Required:	No
	Source Field:	error1
	Source Table:	Temp Import
	Validate On Set:	No

Table: Temp Import Indexes

tax type	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	0
	Foreign:	No
	Ignore Nulls:	No
	Name:	tax type
	Primary:	No
	Required:	No
	Unique:	No
	Fields:	tax type code, Ascending
tin	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	0
	Foreign:	No
	Ignore Nulls:	No
	Name:	tin
	Primary:	No
	Required:	No
	Unique:	No
	Fields:	tin, Ascending

Table: work_swm_temp Columns

User ID	**Type = Text**	**Size = 20**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	1
	Required:	No
	Source Field:	User ID
	Source Table:	work_swm_temp
	Validate On Set:	No
tin	**Type = Text**	**Size = 9**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No

	Ordinal Position:	2
	Required:	No
	Source Field:	tin
	Source Table:	work_swm_temp
	Validate On Set:	No
tax type code	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	3
	Required:	No
	Source Field:	tax type code
	Source Table:	work_swm_temp
	Validate On Set:	No
reason code	**Type = Text**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	4
	Required:	No
	Source Field:	reason code
	Source Table:	work_swm_temp
	Validate On Set:	No
tax period	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	5
	Required:	No
	Source Field:	tax period
	Source Table:	work_swm_temp
	Validate On Set:	No
amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size

	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	6
	Required:	No
	Source Field:	amount
	Source Table:	work_swm_temp
	Validate On Set:	No
verification code	**Type = Text**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	7
	Required:	No
	Source Field:	verification code
	Source Table:	work_swm_temp
	Validate On Set:	No
requested settlement date	**Type = Date/Time**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	8
	Required:	No
	Source Field:	requested settlement date
	Source Table:	work_swm_temp
	Validate On Set:	No
override tax type	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	9

	Required:	No
	Source Field:	override tax type
	Source Table:	work_swm_temp
	Validate On Set:	No
override threshold	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	10
	Required:	No
	Source Field:	override threshold
	Source Table:	work_swm_temp
	Validate On Set:	No
override duplicate	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	11
	Required:	No
	Source Field:	override duplicate
	Source Table:	work_swm_temp
	Validate On Set:	No
futa override	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	12
	Required:	No
	Source Field:	futa override
	Source Table:	work_swm_temp
	Validate On Set:	No
filing period override	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size

	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	13
	Required:	No
	Source Field:	filing period override
	Source Table:	work_swm_temp
	Validate On Set:	No
subcategory count	**Type = Text**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	14
	Required:	No
	Source Field:	subcategory count
	Source Table:	work_swm_temp
	Validate On Set:	No
ss amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	15
	Required:	No
	Source Field:	ss amount
	Source Table:	work_swm_temp
	Validate On Set:	No
medicare amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	16

	Required:	No
	Source Field:	medicare amount
	Source Table:	work_swm_temp
	Validate On Set:	No
tax wh amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	17
	Required:	No
	Source Field:	tax wh amount
	Source Table:	work_swm_temp
	Validate On Set:	No
fica equivalent amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	18
	Required:	No
	Source Field:	fica equivalent amount
	Source Table:	work_swm_temp
	Validate On Set:	No
industry amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	19
	Required:	No
	Source Field:	industry amount
	Source Table:	work_swm_temp
	Validate On Set:	No

supplemental amount	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	20
	Required:	No
	Source Field:	supplemental amount
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#1	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	21
	Required:	No
	Source Field:	irs#1
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 1	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	22
	Required:	No
	Source Field:	irs amount 1
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#2	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No

	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	23
	Required:	No
	Source Field:	irs#2
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 2	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	24
	Required:	No
	Source Field:	irs amount 2
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#3	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	25
	Required:	No
	Source Field:	irs#3
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 3	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	26
	Required:	No
	Source Field:	irs amount 3

	Source Table:	work_swm_temp
	Validate On Set:	No
irs#4	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	27
	Required:	No
	Source Field:	irs#4
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 4	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	28
	Required:	No
	Source Field:	irs amount 4
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#5	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	29
	Required:	No
	Source Field:	irs#5
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 5	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No

	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	30
	Required:	No
	Source Field:	irs amount 5
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#6	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	31
	Required:	No
	Source Field:	irs#6
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 6	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	32
	Required:	No
	Source Field:	irs amount 6
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#7	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	33
	Required:	No
	Source Field:	irs#7

	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 7	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	34
	Required:	No
	Source Field:	irs amount 7
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#8	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	35
	Required:	No
	Source Field:	irs#8
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 8	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	36
	Required:	No
	Source Field:	irs amount 1
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#9	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General

	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	37
	Required:	No
	Source Field:	irs#9
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 9	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	38
	Required:	No
	Source Field:	irs amount 9
	Source Table:	work_swm_temp
	Validate On Set:	No
irs#10	**Type = Text**	**Size = 3**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	39
	Required:	No
	Source Field:	irs#10
	Source Table:	work_swm_temp
	Validate On Set:	No
irs amount 10	**Type = Currency**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	40
	Required:	No

	Source Field:	irs amount 10
	Source Table:	work_swm_temp
	Validate On Set:	No
stage	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	41
	Required:	No
	Source Field:	stage
	Source Table:	work_swm_temp
	Validate On Set:	No
user field 1	**Type = Text**	**Size = 25**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	42
	Required:	No
	Source Field:	user field 1
	Source Table:	work_swm_temp
	Validate On Set:	No
user field 2	**Type = Text**	**Size = 25**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	43
	Required:	No
	Source Field:	user field 2
	Source Table:	work_swm_temp
	Validate On Set:	No
pin	**Type = Text**	**Size = 4**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No

	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	44
	Required:	No
	Source Field:	pin
	Source Table:	work_swm_temp
	Validate On Set:	No
actual settlement date	**Type = Date/Time**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	45
	Required:	No
	Source Field:	actual settlement date
	Source Table:	work_swm_temp
	Validate On Set:	No
sent	**Type = Number (Integer)**	**Size = 2**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Decimal Places:	Auto
	Ordinal Position:	46
	Required:	No
	Source Field:	sent
	Source Table:	work_swm_temp
	Validate On Set:	No
error	**Type = Yes/No**	**Size = 1**
	Allow Zero Length:	No
	Attributes:	Fixed Size
	Collating Order:	Unknown or Undefined
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	47
	Required:	No

	Source Field:	error
	Source Table:	work_swm_temp
	Validate On Set:	No
acknowledgment number	**Type = Text**	**Size = 15**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	48
	Required:	No
	Source Field:	acknowledgment number
	Source Table:	work_swm_temp
	Validate On Set:	No
error1	**Type = Text**	**Size = 8**
	Allow Zero Length:	No
	Attributes:	Variable Length
	Collating Order:	General
	Column Hidden:	No
	Column Order:	Default
	Column Width:	Default
	Data Updatable:	No
	Ordinal Position:	49
	Required:	No
	Source Field:	error1
	Source Table:	work_swm_temp
	Validate On Set:	No

Table: work_swm_temp Indexes

tax type	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	0
	Foreign:	No
	Ignore Nulls:	No
	Name:	tax type
	Primary:	No
	Required:	No
	Unique:	No
	Fields:	tax type code, Ascending
tin	**# of Fields = 1**	
	Clustered:	No
	Distinct Count:	0
	Foreign:	No

Ignore Nulls:	No
Name:	tin
Primary:	No
Required:	No
Unique:	No
Fields:	tin, Ascending

Appendix C: Import/Export Data Files

Import Data File

Field Name	Data Type	Start	Width
user ID	Text	1	20
TIN	Text	21	9
tax type code	Text	30	4
reason code	Text	34	1
tax period	Text	35	4
amount	Currency	39	21
verification code	Text	60	2
request settlement	Date/Time	62	19
override tax type	Yes/No	81	1
override threshold	Yes/No	82	1
override duplicate	Yes/No	83	1
futa override	Yes/No	84	1
filing period override	Yes/No	85	1
sub-category count	Text	86	2
SS amount	Currency	88	21
medicare amount	Currency	109	21
tax wh amount	Currency	130	21
fica equivalent amount	Currency	151	21
industry amount	Currency	172	21
supplement amount	Currency	193	21
IRS #1	Text	214	3
IRS amount 1	Currency	217	21
ins #2	Text	238	3
IRS amount 2	Currency	241	21
IRS #3	Text	262	3
IRS amount 3	Currency	265	21
IRS #4	Text	286	3
IRS amount 4	Currency	289	21
IRS #5	Text	310	3
IRS amount 5	Currency	313	21
IRS #6	Text	334	3
IRS amount 6	Currency	337	21
IRS #7	Text	358	3

IRS amount 7	Currency	361	21
IRS #8	Text	382	3
IRS amount 8	Currency	385	21
IRS #9	Text	406	3
IRS amount 9	Currency	409	21
IRS #10	Text	430	3
IRS amount 10	Currency	433	21
stage	Yes/No	454	1
user field 1	Text	455	25
user field 2	Text	480	25
PIN	Text	505	4

Note: If certain data elements are not applicable or are to be excluded, completely omit those data elements from the string.

Export Data File

Field Name	Data Type	Start	Width
User ID	Text	1	20
TIN	Text	21	9
tax type code	Text	30	4
reason code	Text	34	1
tax period	Text	35	4
amount	Currency	39	21
verification code	Text	60	2
request settlement	Date/Time	62	19
override tax type	Yes/No	81	1
override threshold	Yes/No	82	1
override duplicate	Yes/No	83	1
futa override	Yes/No	84	1
filing period override	Yes/No	85	1
sub-category count	Text	86	2
SS amount	Currency	88	21
medicare amount	Currency	109	21
tax wh amount	Currency	130	21
fica equivalent amount	Currency	151	21
industry amount	Currency	172	21
supplement amount	Currency	193	21
IRS #1	Text	214	3
IRS amount 1	Currency	217	21
IRS #2	Text	238	3
IRS amount 2	Currency	241	21
IRS #3	Text	262	3
IRS amount 3	Currency	265	21
IRS #4	Text	286	3

Field Name	Data Type	Start	Width
IRS amount 4	Currency	289	21
IRS #5	Text	310	3
IRS amount 5	Currency	313	21
IRS #6	Text	334	3
IRS amount 6	Currency	337	21
IRS #7	Text	358	3
IRS amount 7	Currency	361	21
IRS #8	Text	382	3
IRS amount 8	Currency	385	21
IRS #9	Text	406	3
IRS amount 9	Currency	409	21
IRS #10	Text	430	3
IRS amount 10	Currency	433	21
stage	Yes/No	454	1
user field 1	Text	455	25
user field 2	Text	480	25
PIN	Text	505	4
actual settlement date	Date/Time	509	19
sent	Integer	528	6
error	Yes/No	534	1
EFT num	Text	535	15
error 1	Text	550	8

CLAIMS

What is claimed is:

1. A method for facilitating the input of tax data into a computer, said tax data including one or more data entries, comprising the steps of:

requesting that a user enter said data entries into one or more data entry fields;

receiving said data entries from said data entry fields; and

determining whether one or more of said data entries satisfies a corresponding validity criterion.

2. The method of claim 1, further comprising the step of notifying said user if one of said data entries does not satisfy a validity criterion corresponding to said data entry.

3. The method of claim 2, further comprising the step of receiving a new data entry to replace one of said data entries.

4. The method of claim 1, further comprising the step of submitting said tax data for processing if said user indicates that said tax data is ready for submission.

5. The method of claim 1, wherein at least one of said data entry fields has an associated set of choices from which said user selects an item.

6. The method of claim 5, wherein said set of choices is presented to said user as a drop-down list.

7. The method of claim 1, wherein said tax data is stored in a table.

8. The method of claim 7, wherein a relational database contains said table.

9. The method of claim 1, wherein said step of determining whether one or more of said data entries satisfies a corresponding validity criterion is performed as each of said data entries is received.

10. The method of claim 1, wherein said step of determining whether one or more of said data entries satisfies a corresponding validity criterion is performed after all of said data entries are received.

11. The method of claim 1, wherein a validity criterion corresponding to at least one of said data entries is pre-defined.

12. The method of claim 1, wherein a validity criterion corresponding to at least one of said data entries is dependent upon another of said data entries.

13. The method of claim 1, wherein a validity criterion corresponding to at least one of said data entries is a data format edit.

14. The method of claim 13, wherein said data format edit is a nine digit taxpayer identification number (TIN).

15. The method of claim 13, wherein said data format edit is a four digit personal identification number (PIN).

16. The method of claim 1, wherein a validity criterion corresponding to at least one of said data entries is a data content edit.

17. The method of claim 16, wherein said data content edit is a valid settlement date.

18. The method of claim 16, wherein said data content edit is a verification code based on an amount entered by said user.

19. The method of claim 16, wherein said data content edit is a valid tax form.

20. The method of claim 16, wherein said data content edit is a valid tax period for a valid tax form.

21. The method of claim 16, wherein said data content edit is a valid reason code for a valid tax form.

22. The method of claim 16, wherein said data content edit is a valid personal identification number (PIN) for a valid taxpayer identification number (TIN).

23. A system for facilitating the input of tax data into a computer, said tax data including one or more data entries, comprising:

control logic configured to request that a user enter said data entries into one or more data entry fields;

control logic configured to receive said data entries from said data entry fields; and

control logic configured to determine whether one or more of said data entries satisfies a corresponding validity criterion.

24. The system of claim 23, further comprising control logic configured to notify said user if one of said data entries does not satisfy a validity criterion corresponding to said data entry.

25. The system of claim 24, further comprising control logic configured to receive a new data entry to replace one of said data entries.

26. The system of claim 23, wherein said control logic configured to determine whether one or more of said data entries satisfies a corresponding validity criterion is executed as each of said data entries is received.

27. The system of claim 23, wherein said control logic configured to determine whether one or more of said data entries satisfies a corresponding validity criterion is executed after all of said data entries are received.

28. The system of claim 23, wherein a validity criterion corresponding to at least one of said data entries is pre-defined.

29. The system of claim 23, wherein a validity criterion corresponding to at least one of said data entries is dependent upon another of said data entries.

FIG. 1

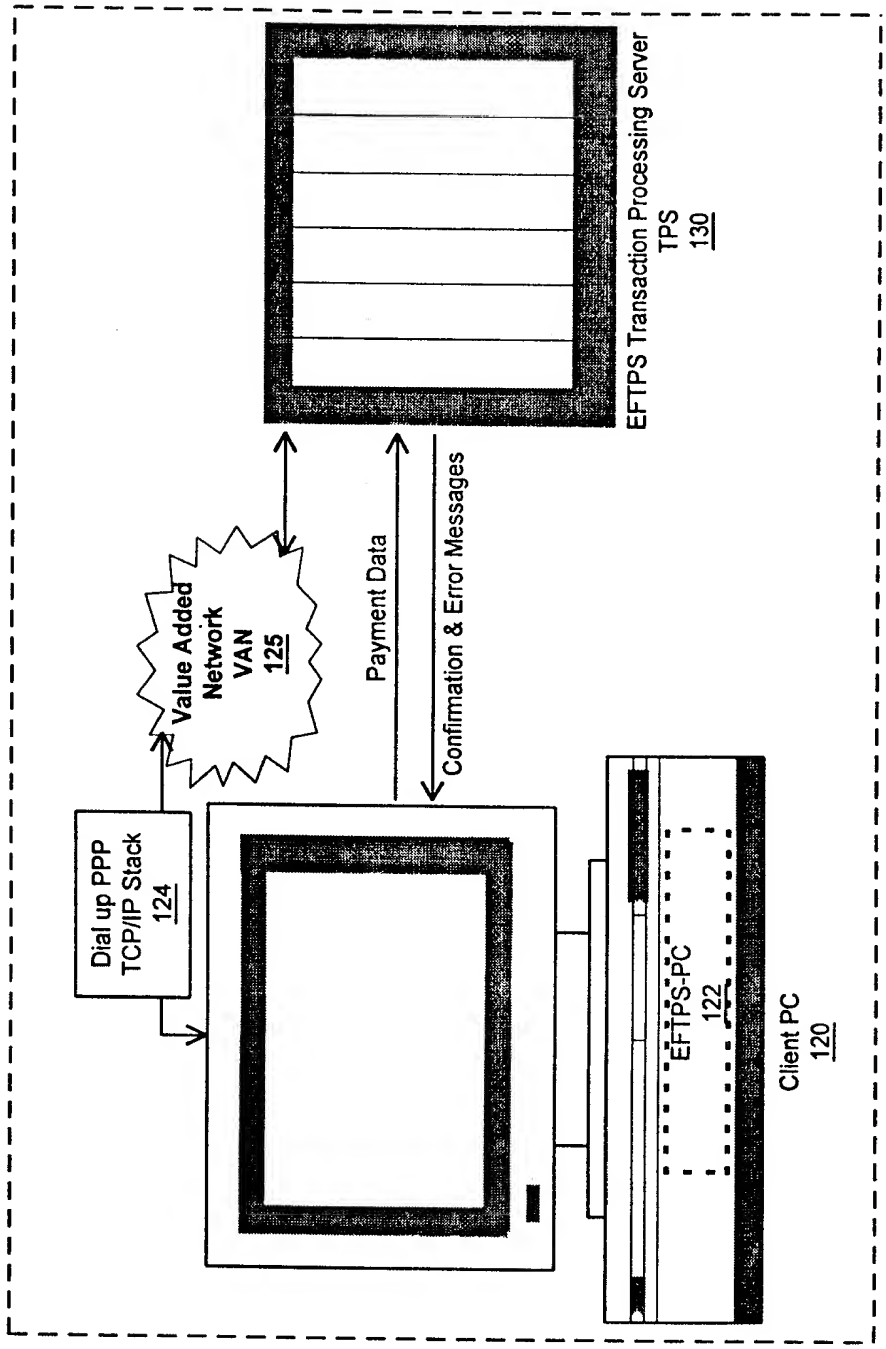
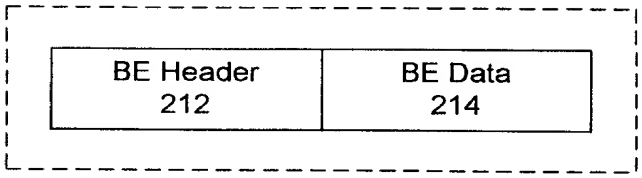
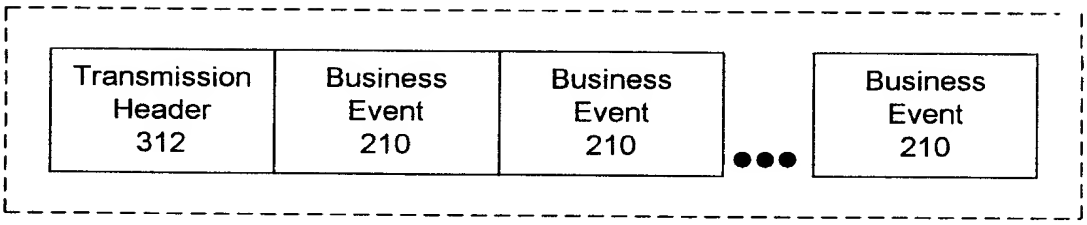

Electronic Tax Payment System
105
EFTPS Transaction Processing Server
TPS
130
Value Added
Network
VAN
125
Payment Data
Confirmation & Error Messages
Dial up PPP
TCP/IP Stack
124
EFTPS-PC
122
Client PC
120

FIG. 2



Business Event
210

FIG. 3



Remote Message Block (RMB)
310

FIG. 4

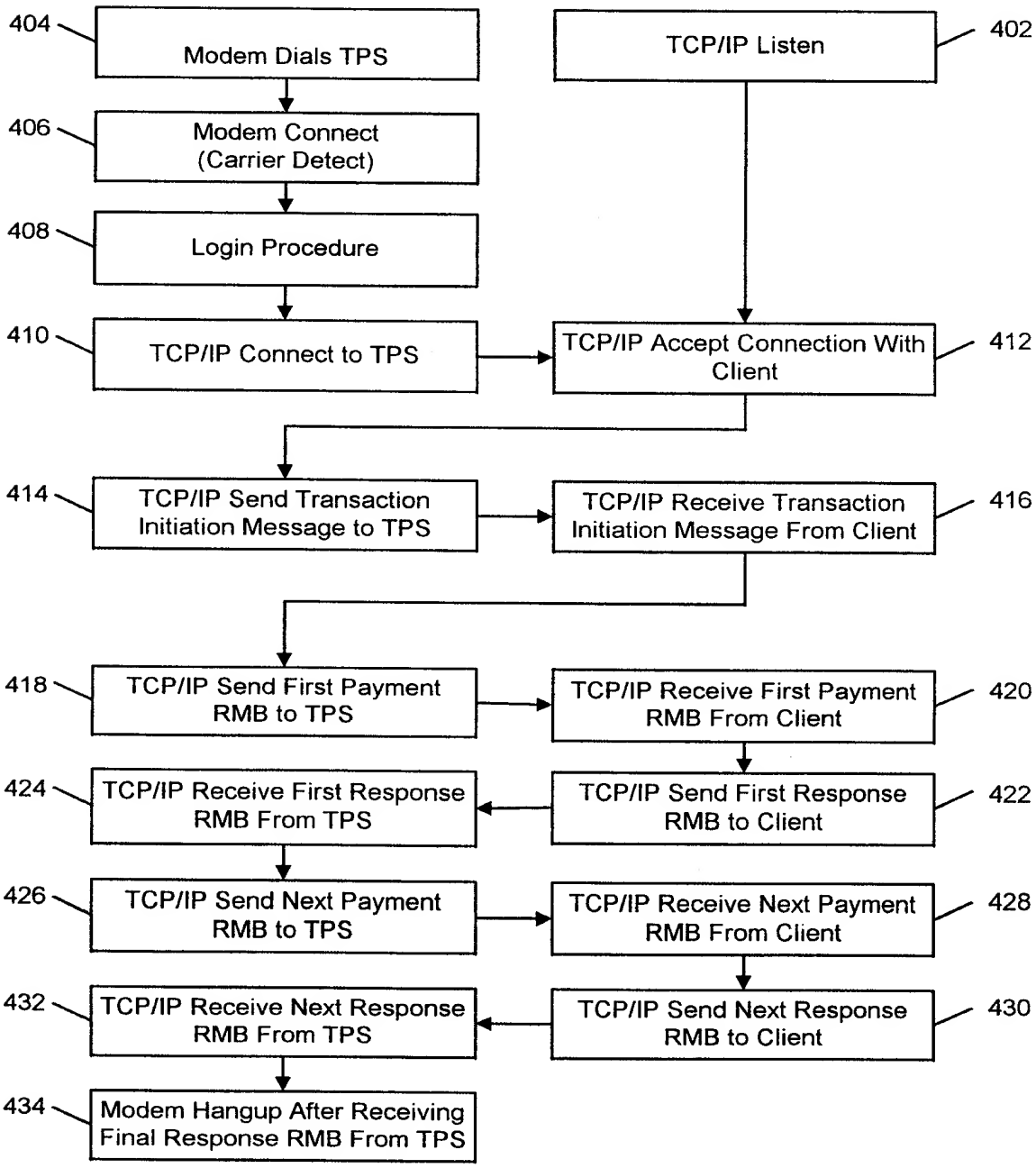

404
Modem Dials TPS
402
TCP/IP Listen
406
Modem Connect (Carrier Detect)
408
Login Procedure
410
TCP/IP Connect to TPS
TCP/IP Accept Connection With Client
412
414
TCP/IP Send Transaction Initiation Message to TPS
TCP/IP Receive Transaction Initiation Message From Client
416
418
TCP/IP Send First Payment RMB to TPS
TCP/IP Receive First Payment RMB From Client
420
424
TCP/IP Receive First Response RMB From TPS
TCP/IP Send First Response RMB to Client
422
426
TCP/IP Send Next Payment RMB to TPS
TCP/IP Receive Next Payment RMB From Client
428
432
TCP/IP Receive Next Response RMB From TPS
TCP/IP Send Next Response RMB to Client
430
434
Modem Hangup After Receiving Final Response RMB From TPS

FIG. 5

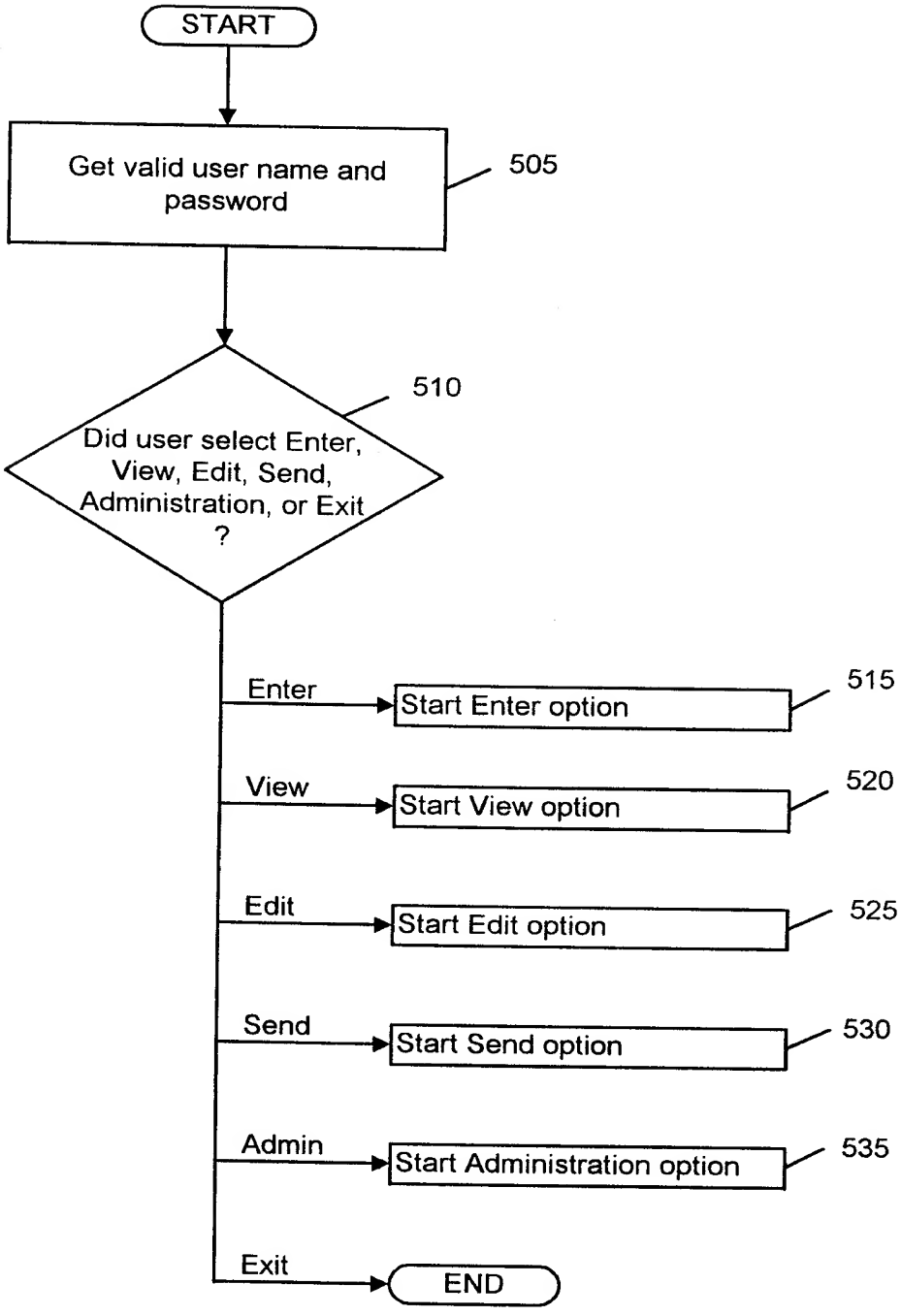
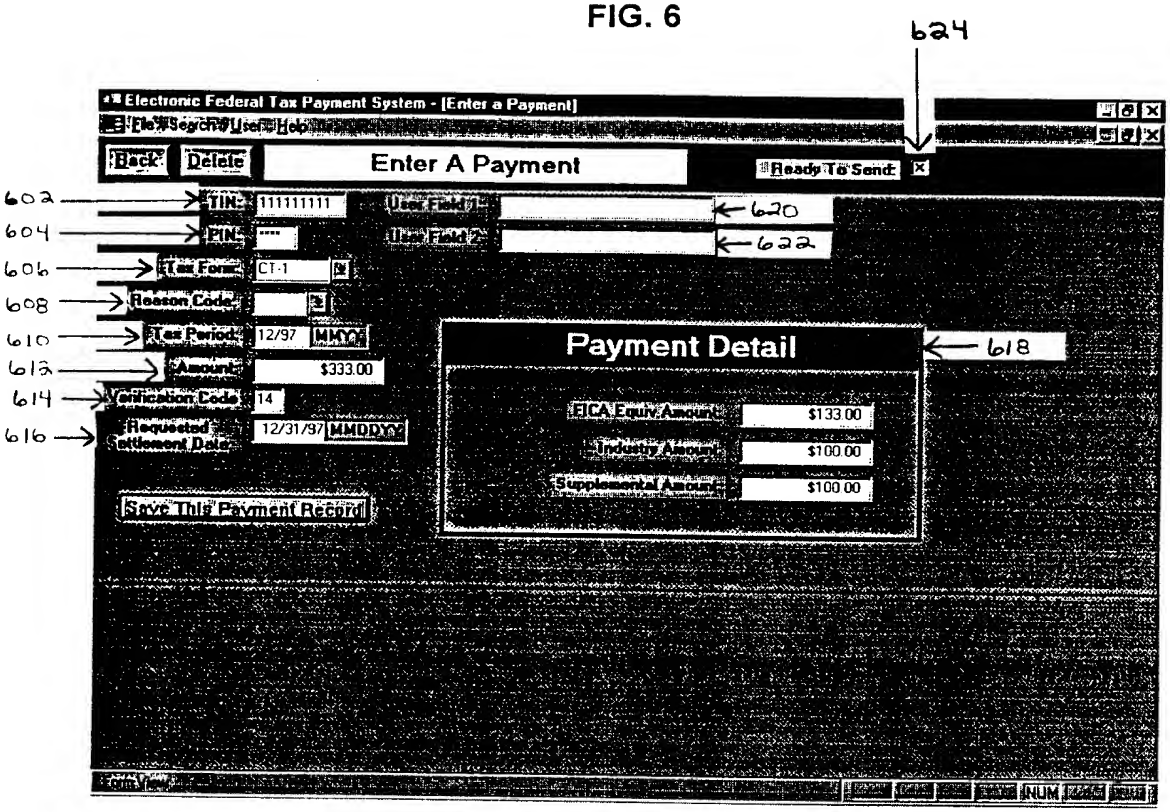
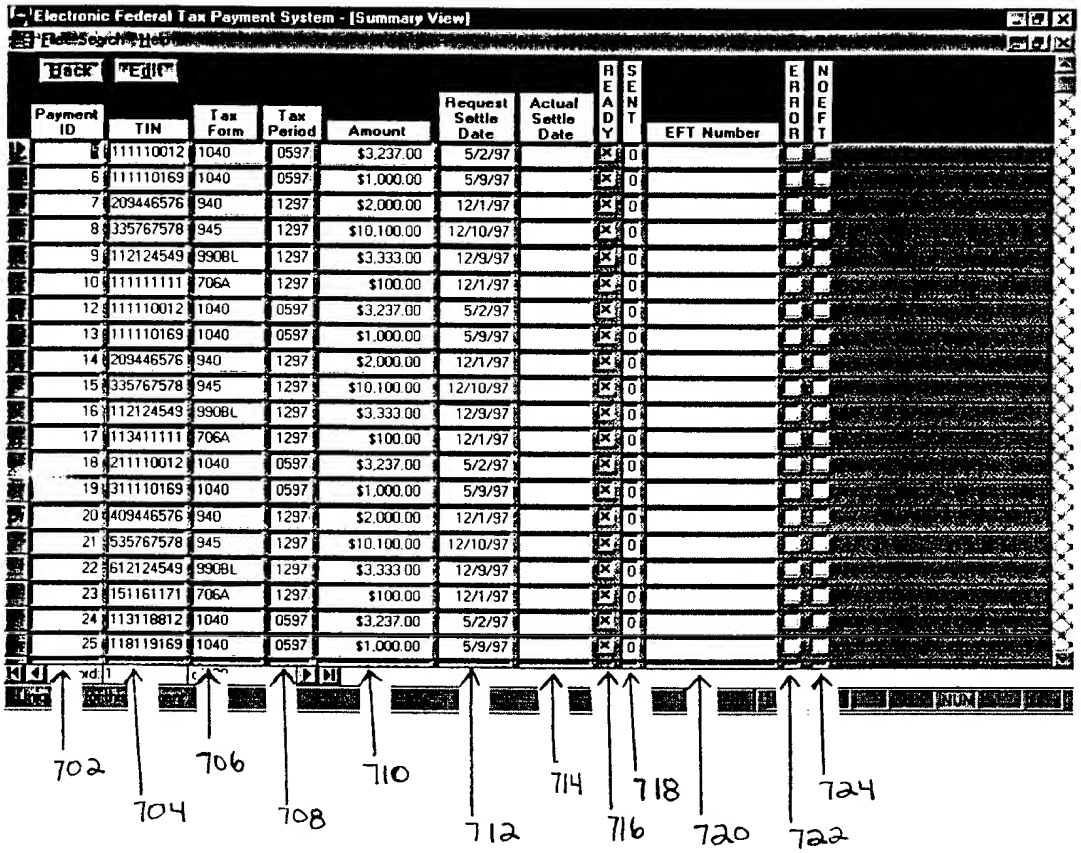

START
Get valid user name and password
505
510
Did user select Enter, View, Edit, Send, Administration, or Exit ?
Enter
Start Enter option
515
View
Start View option
520
Edit
Start Edit option
525
Send
Start Send option
530
Admin
Start Administration option
535
Exit
END

FIG. 6



Enter Payments screen
600

FIG. 7



Summary View screen
700

FIG. 8

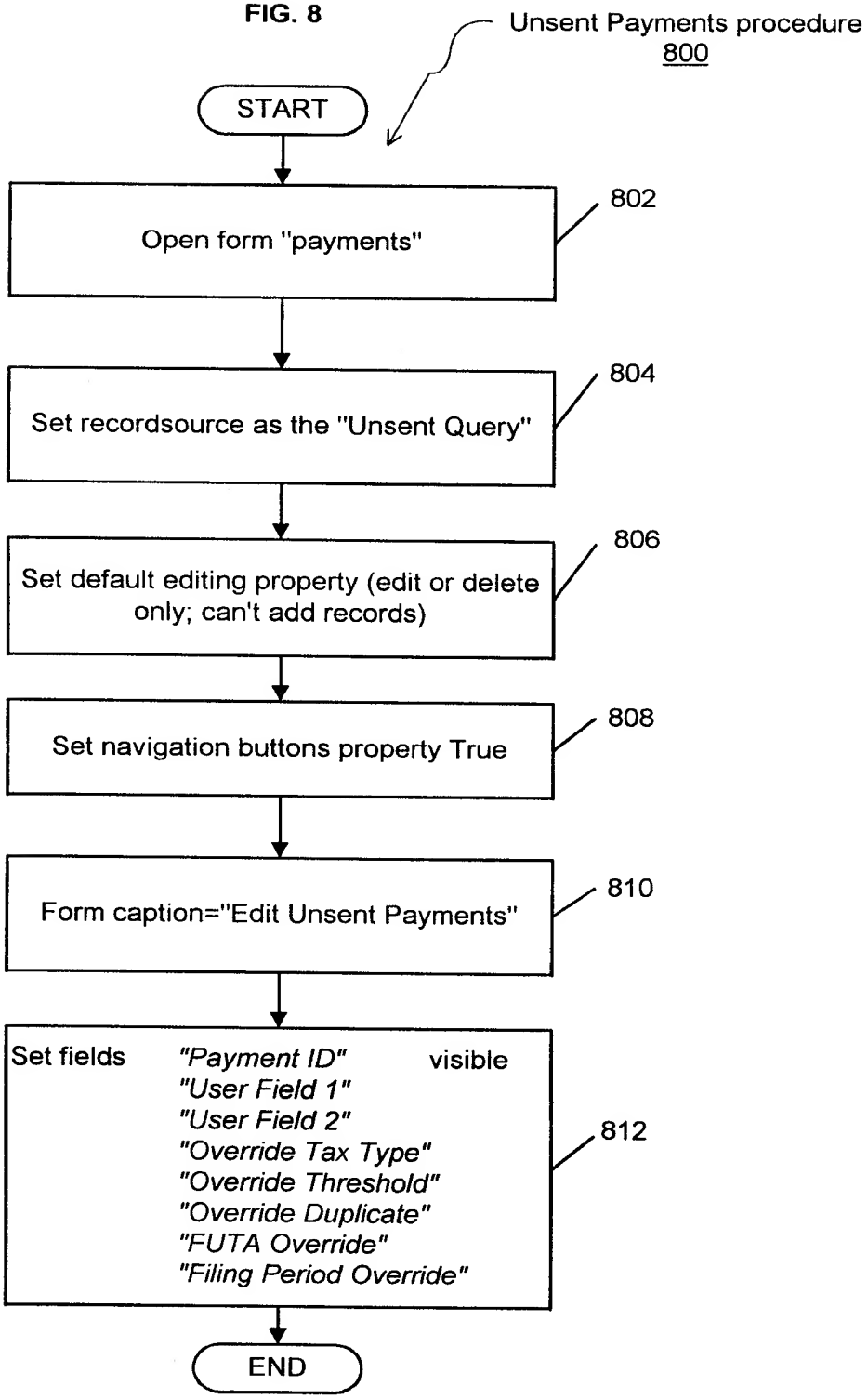

Unsent Payments procedure
800
START
Open form "payments"
802
Set recordsource as the "Unsent Query"
804
Set default editing property (edit or delete only; can't add records)
806
Set navigation buttons property True
808
Form caption="Edit Unsent Payments"
810
Set fields
"Payment ID" visible
"User Field 1"
"User Field 2"
"Override Tax Type"
"Override Threshold"
"Override Duplicate"
"FUTA Override"
"Filing Period Override"
812
END

FIG. 9A

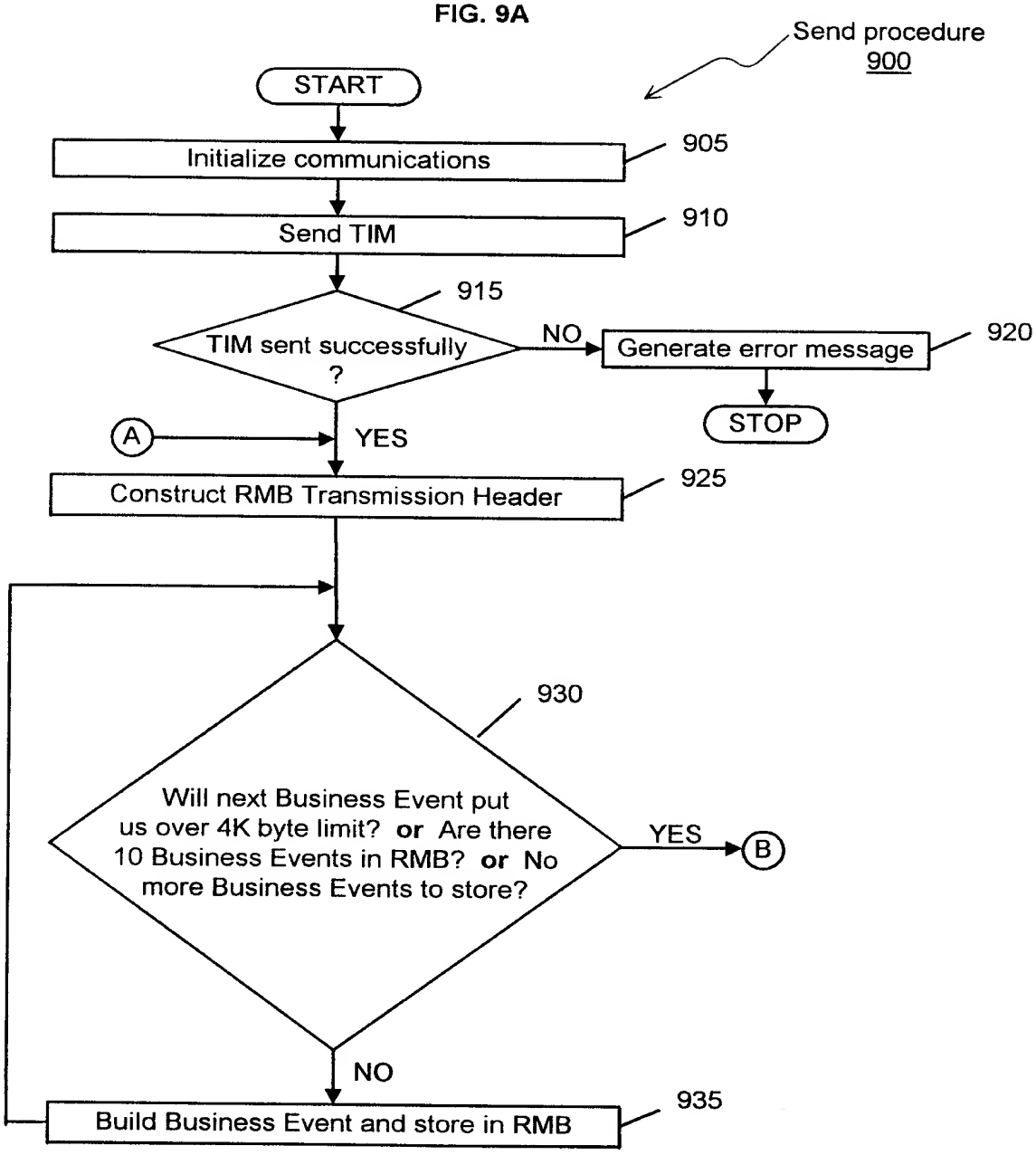

Send procedure
900
START
Initialize communications
905
Send TIM
910
915
TIM sent successfully ?
NO
Generate error message
920
STOP
A
YES
Construct RMB Transmission Header
925
930
Will next Business Event put us over 4K byte limit? or Are there 10 Business Events in RMB? or No more Business Events to store?
YES
B
NO
Build Business Event and store in RMB
935

FIG. 9B

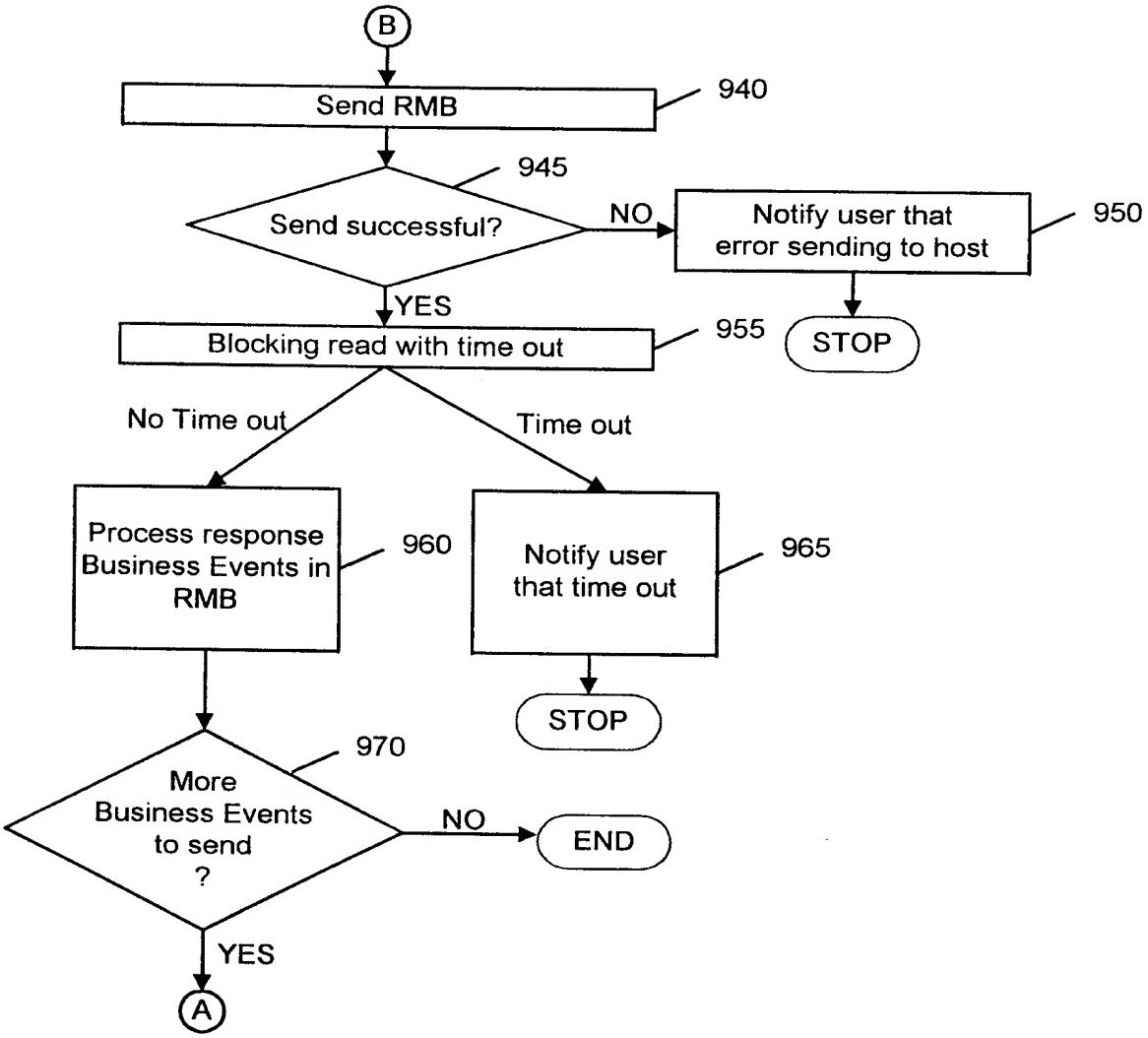

B
Send RMB
940
945
Send successful?
NO
Notify user that error sending to host
950
YES
Blocking read with time out
955
STOP
No Time out
Time out
Process response Business Events in RMB
960
Notify user that time out
965
STOP
970
More Business Events to send ?
NO
END
YES
A

FIG. 10

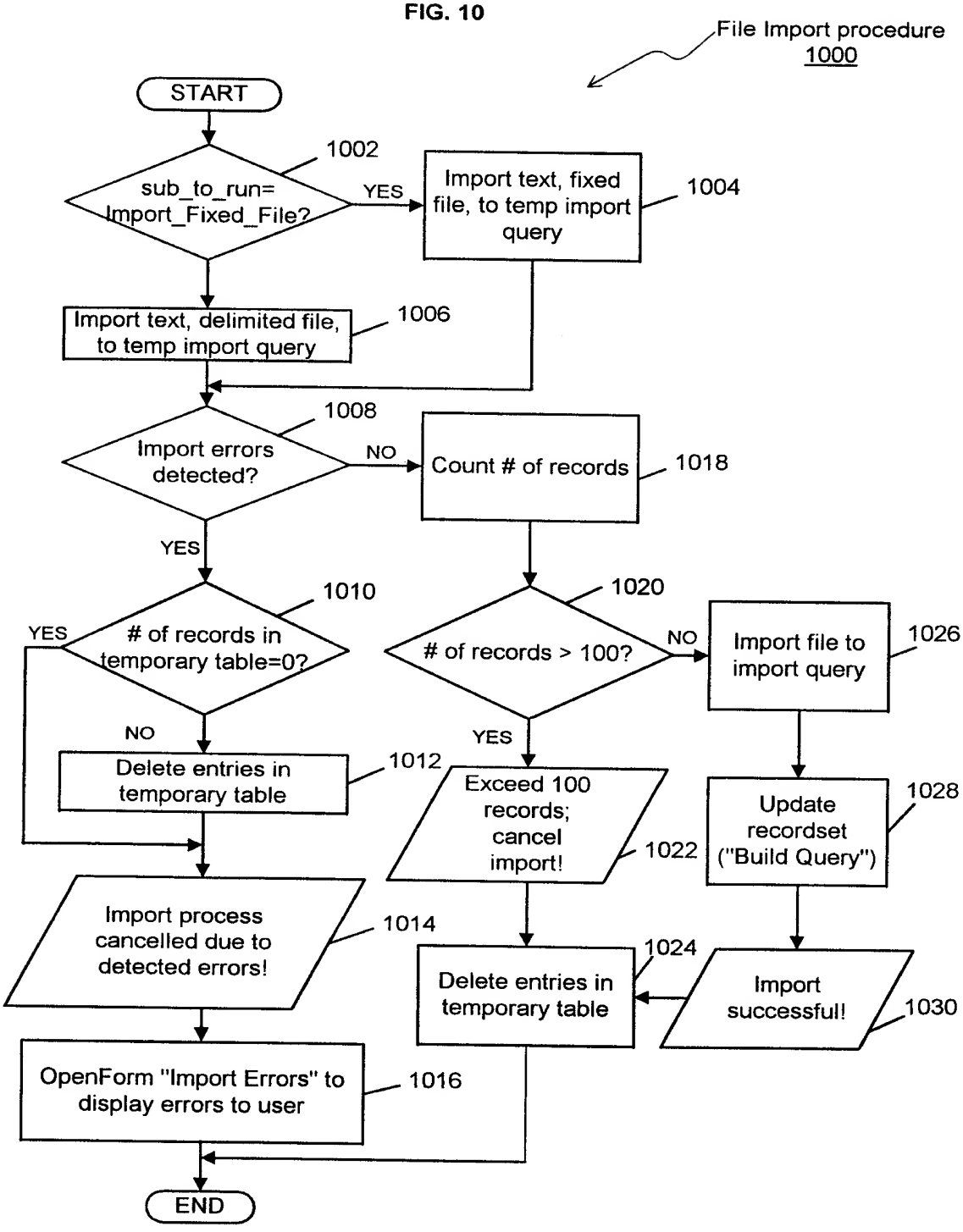
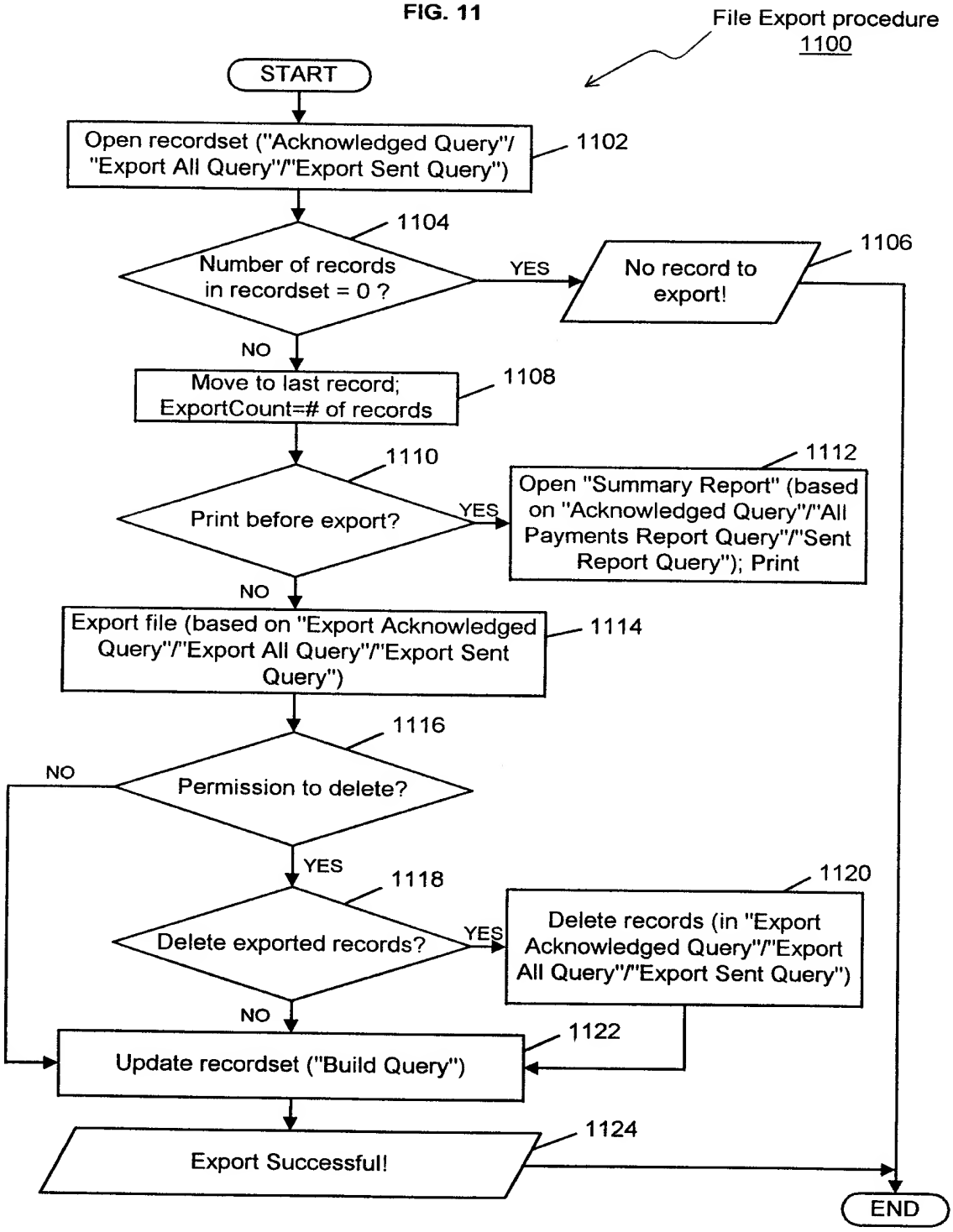

File Import procedure
1000
START
1002
sub_to_run= Import_Fixed_File?
YES
Import text, fixed file, to temp import query
1004
Import text, delimited file, to temp import query
1006
1008
Import errors detected?
NO
Count # of records
1018
YES
1010
YES
# of records in temporary table=0?
NO
Delete entries in temporary table
1012
1020
# of records > 100?
NO
Import file to import query
1026
YES
Exceed 100 records; cancel import!
1022
Update recordset ("Build Query")
1028
Import process cancelled due to detected errors!
1014
1024
Delete entries in temporary table
Import successful!
1030
OpenForm "Import Errors" to display errors to user
1016
END

FIG. 11


File Export procedure
1100
START
Open recordset ("Acknowledged Query"/ "Export All Query"/"Export Sent Query")
1102
1104
Number of records in recordset = 0 ?
YES
No record to export!
1106
NO
Move to last record; ExportCount=# of records
1108
1110
Print before export?
YES
Open "Summary Report" (based on "Acknowledged Query"/"All Payments Report Query"/"Sent Report Query"); Print
1112
NO
Export file (based on "Export Acknowledged Query"/"Export All Query"/"Export Sent Query")
1114
1116
Permission to delete?
NO
YES
1118
Delete exported records?
YES
Delete records (in "Export Acknowledged Query"/"Export All Query"/"Export Sent Query")
1120
NO
Update recordset ("Build Query")
1122
Export Successful!
1124
END

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 98/16741

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 G06F17/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"Our fifth annual 1040 tax prep face-off" ACCOUNTING TECHNOLOGY, NOV. 1996, FAULKNER & GRAY, USA, vol. 12, no. 10, pages 20-76, XP002088260 ISSN 0883-1866 see page 30, column 2, line 21 - line 43 see page 32, column 2, line 27 - column 3, line 14 see page 33, column 2, line 23 - column 3, line 14 ---	1-29
X	HOWLETT D: "The taxman cometh Software review" WHAT PERSONAL COMPUTER, JULY 1996, EMAP COMPUTING, UK, no. 84, pages 132-133, XP002088261 ISSN 0956-5248 see page 132 - page 133 --- -/--	1-29

[X] Further documents are listed in the continuation of box C.

[ ] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
16 December 1998	12/01/1999

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Suendermann, R

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Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 98/16741

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
X	HOWLETT D: "Death and taxes tax software reviews" WHAT PERSONAL COMPUTER, AUG. 1997, EMAP COMPUTING, UK, no. 97, pages 96-97, XP002088262 ISSN 0956-5248 see page 96 - page 97	1-29
A	SCOTT R W: "Don't fret over Web tax prep" ACCOUNTING TECHNOLOGY, JULY 1997, FAULKNER & GRAY, USA, vol. 13, no. 6, page 14, 16 XP002088263 ISSN 0883-1866 see page 14 - page 16	1,23

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DERWENT-ACC-NO: 1999-190254

DERWENT-WEEK: 199929

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TITLE: Entry of tax data into computer system for facilitating interactive entry and validation of data prior to electronic submission to a tax system

INVENTOR: DONLAVAGE L H; MASON M ; TAYLOR S

PATENT-ASSIGNEE: FIRST DATA CORP[FIRSN]

PRIORITY-DATA: 1997US-915073 (August 20, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
WO 9909504 A1	February 25, 1999	EN
AU 9887808 A	March 8, 1999	EN

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW A T BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
WO1999009504A1	N/A	1998WO-US16741	August 11, 1998
AU 9887808A	Based on	1998AU-087808	August 11, 1998

INT-CL-CURRENT:

TYPE	IPC DATE
CIPS	G06Q40/00 20060101

ABSTRACTED-PUB-NO: WO 9909504 A1

BASIC-ABSTRACT:

NOVELTY - A communications module is used to transmit payment data to the electronic tax authority, such as the Electronic Federal Tax Payment System (EFTPS) in the USA, and then receives confirmation or error message in response.

DESCRIPTION - User is requested to enter data entries into the data entry fields, and determining on reception of data entries whether they satisfy corresponding validity criterion. The user is then notified whether the results satisfy the validity criterion.

USE - For facilitating interactive entry and validation of data prior to electronic submission to tax system, such as EFTPS, using personal computer.

ADVANTAGE - Provides system that interactively accepts and validates data input comprising tax payment transactions, views and edits previously entered data input comprising tax payment transactions.

DESCRIPTION OF DRAWING(S) - Drawing shows high level diagram of an embodiment of electronic tax payment system in which invention might operate.

CHOSEN-DRAWING: Dwg.1/11

TITLE-TERMS: ENTER TAX DATA COMPUTER SYSTEM FACILITATE INTERACT VALID PRIOR ELECTRONIC

DERWENT-CLASS: T01 T05 W01

EPI-CODES: T01-H07C5E; T01-J05A; T01-J05A1; T05-L02; W01-A06B7; W01-C05B3C;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: 1999-139160